



**Annual Site Management Report
May 2023
Korkay, Inc. (518014)
Broadalbin, New York**

Prepared for

New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233



Prepared by

EA Engineering, P.C. and Its Affiliate
EA Science and Technology
333 West Washington St. Suite 300
Syracuse, New York 13202

August 2024
Version: FINAL
EA Project No. 1602534.0011

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A handwritten signature in blue ink, appearing to read "Joshua Oliver".

8/28/2024

Joshua Oliver, P.G., Project Manager
EA Science and Technology

Date

A handwritten signature in black ink, appearing to read "Donald Conan".

8/28/2024

Donald Conan, P.E., P.G., Project Engineer
EA Engineering, P.C.

Date

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LIST OF ACRONYMS AND ABBREVIATIONS

µg/L	Microgram(s) per liter
AWQS	Ambient Water Quality Standard
CDM	Camp, Dresser, and McKee
COC	Contaminant of concern
DCE	Dichloroethene
EA	Engineering, P.C. and its affiliate EA Science and Technology
FS	Feasibility study
Korkay	Korkay, Inc.
ng/L	Nanogram(s) per liter
No.	Number
NYSDEC	New York State Department of Environmental Conservation
PCE	Tetrachloroethene
P.E.	Professional Engineer
PFAS	Per- and polyfluoroalkyl substances
PFOS	Perfluorooctane sulfonic acid
P.G.	Professional Engineer
pH	Presence of hydrogen
P,P'-DDT	P,P'-Dichlorodiphenyltrichloroethane
RI	Remedial investigation
ROD	Record of Decision
SIM	Select ion monitoring
SVOC	Semivolatile organic compound
TCA	Trichloroethane
TCE	Trichloroethene
TOC	Total organic compound
UST	Underground storage tank
VOC	Volatile organic compound

1. INTRODUCTION

The New York State Department of Environmental Conservation (NYSDEC) tasked EA Engineering, P.C. and its affiliate EA Science and Technology (EA) to perform site management activities at the Korkay, Inc. (NYSDEC Site No. 518014), which includes evaluation and performance of long-term monitoring of groundwater, surface water, and sediment. The area is in a suburban area of Fulton County in Broadalbin, New York (**Figure 1**).

Korkay, Inc. (Korkay) was a supplier of detergents, solvents, and degreasers to the automotive industry from 1969 to 1980. Korkay purchased bulk quantities of chemicals that were stored on-site for repackaging and/or blending into commercial products including automobile wax, and hand cleaners. In addition to the commercial products being produced, Korkay also operated as a drum reclamation facility. Drums were accepted containing a variety and quantity of chemicals that remains undetermined. The drums were emptied of any remaining chemicals, washed, rinsed and relined. This process was conducted without appropriate containment of the chemicals, and chemical laden rinsate being discharged through the facilities septic system or directly to the ground surface. The NYSDEC and the New York State Department of Health inspected the site in 1979 and documented the occurrence of these activities. In 1980, Korkay installed a 4,000 gallon aboveground storage tank to appropriately contain the residual chemicals and rinsate generated from drum reclamation. Reports and Site documentation indicate that the drums contained acetone, isopropyl alcohol, degreasers, and perfumes as well as other chemicals. Additionally, three underground storage tanks (USTs) were used for storage of fuel oil and chemicals. The approximate locations of the USTs are shown in a figure taken from the 1994 Remedial Investigation (RI) Report (Camp, Dresser, and McKee [CDM] 1994).

The NYSDEC conducted a site inspection in 1992 at which time numerous drums of hazardous waste were found and secured for removal. Between 1993 and 1995, CDM conducted a RI and feasibility study (FS) of the site. The first phase of the RI, conducted from September 1993 until April 1994, included the collection of surface and subsurface soil samples and the installation and sampling of monitoring wells. The second phase of the RI, conducted between October 1994 and May 1995, included the collection of additional soil samples to delineate vertical extent of contamination and background levels and the collection of a second round of groundwater samples. Data from the RI were presented in a Final Phase I RI Report (CDM 1994) and Final Phase II RI Report (CDM 1995a). Evaluations of remedial alternatives were presented in a Final FS (Detailed Analysis) Report (CDM 1995b). Following submission of the FS, a Record of Decision (ROD) was issued by the NYSDEC in March 1996.

1.1 OBJECTIVES

EA completed field activities at the Korkay site that included the collection of aqueous and soil media via groundwater, surface and sediment samples to continue monitoring volatile organic compound (VOCs), semivolatile organic compounds (SVOCs), pesticides, per- and polyfluoroalkyl substances (PFAS) and 1,4-dioxane following remedial action. This study will assist with the evaluation of site contamination following remedial activities on-site. This report will summarize sampling activities and results concerning the 2023 annual sampling event.

1.2 REPORT ORGANIZATION

Monitoring activities are discussed in Section 2, VOC, SVOCs, pesticides, PFAS, and 1,4-dioxane concentration trends are discussed in Section 3, and conclusions and recommendations are discussed in Section 4.

The following are provided as appendixes:

- Appendix A— Daily Field Reports
- Appendix B— Field Forms
- Appendix C— Laboratory Reports
- Appendix D— Data Validation Report

2. MONITORING ACTIVITIES

Site activities for the annual sampling event included the gauging and sampling of groundwater monitoring wells and collecting surface water and sediment samples. A summary of samples collected during the fourth quarter is provided in **Table 1**. Site activities occurred on 23 and 24 May 2023. Daily field reports are included in **Appendix A**.

2.1 GROUNDWATER GAUGING

Groundwater levels were recorded on 24 May 2023, after groundwater sampling due to PFAS, to determine groundwater flow patterns in the overburden and bedrock. Depth to groundwater was measured from 20 wells (**Figure 2**) by measuring from the top of the inner polyvinyl chloride casing using a water-level indicator. Groundwater depths and total depths are provided in monitoring well gauging logs provided in **Appendix B** and groundwater contours for bedrock and overburden monitoring wells are detailed on **Figure 3**.

2.2 GROUNDWATER SAMPLING

A total of 19 of 20 groundwater samples were collected, with 1 matrix spike/matrix spike duplicate, 1 field duplicate, 1 field blank, and 1 trip blank. Samples are summarized in **Table 1**. MW-8D was unable to be sampled due to obstruction in the well. Wells were purged using a peristaltic pump and a bladder pump, with a flow rate of approximately 0.20–0.50 liters per minute until the water quality parameters stabilized at which time groundwater samples were collected for analysis of VOCs, PFAS, and 1,4-dioxane.

Water quality parameters including temperature, potential hydrogen (pH), oxidation-reduction potential, conductivity, dissolved oxygen, and turbidity were monitored during purging using a Horiba U-52 water quality monitoring system with flow-through cell. Field parameters were considered stable when the following conditions were met for three consecutive readings:

- pH readings within ± 0.1 pH units
- Oxidation-reduction potential within ± 10 millivolts
- Dissolved oxygen within ± 10 percent or less than 0.5 milligrams per liter
- Specific conductance within ± 3 percent
- Turbidity measurements within ± 10 percent or less than 5 nephelometric turbidity units

Dedicated high-density polyethylene tubing was used at each monitoring well location. Non-dedicated sampling equipment (i.e., bladder pump and water-level indicator) were decontaminated with Alconox detergent and deionized water between well locations to prevent cross-contamination.

The depth to water was measured after purging using a water-level indicator due to PFAS. Water quality parameters, calibration forms, field notes, and groundwater sampling purge forms are provided in **Appendix B**.

Groundwater samples were collected using clean nitrile gloves and placed in laboratory supplied bottle ware containing appropriate preservatives. Samples were placed on ice in sample coolers immediately after collection to ensure proper preservation. Pertinent sample information was recorded on the associated chain-of-custody, and samples were shipped off-site under secure chain-of-custody protocol. Groundwater samples were dropped off at Pace Environmental, Rotterdam, New York, for laboratory analysis of VOCs via Method 8260D, SVOCs via method 8270C, organochlorine pesticides via Method 8081A, PFAS via Method 1633, 1,4-dioxane via Method 8270 select ion monitoring (SIM) and total organic compound (TOC) via Lloyd Kahn method.

2.3 SURFACE WATER SAMPLING

Surface water samples were collected from three locations from the Kenneyto Creek, and analyzed for VOCs via Method 8260C, SVOCs via Method 8270D, organochlorine pesticides via method 8081A, PFAS via Method 1633, and 1,4-dioxane via Method 8270 SIM (**Figure 4**).

2.4 SEDIMENT SAMPLING

Sediment samples were collected from three locations from the Kenneyto Creek, and analyzed for VOCs via Method 8260C, SVOCs via Method 8270D, organochlorine pesticides via Method 8081A, PFAS via method 1633, 1,4-dioxane via method 8270 SIM and TOC via Lloyd Kahn method (**Figure 4**).

2.5 ACCESS AGREEMENT

EA obtained an updated access agreement from an undisclosed residency for privacy in order to access two wells.

3. COMPOUND CONCENTRATION TRENDS

Contaminants of concern (COCs) in aqueous and gaseous media for the site are VOCs, SVOCs and pesticides. Concentrations of the COCs for the site will serve as a metric to evaluate rebound following system shut-off. In general, VOC concentrations for the May 2023 sampling event are comparable to previous sampling events from 2007–2019. Sampling did not take place between 2019 – 2022.

3.1 GROUNDWATER FLOW

Water-level measurements were collected after the wells were sampled to limit the potential of cross contamination of PFAS. The depth-to-water measurements were converted to water table elevations. The groundwater table elevation data is provided in **Table 1** and on **Figure 3**.

3.2 GROUNDWATER COC CONCENTRATION TRENDS

3.2.1 GROUNDWATER VOC CONCENTRATION TRENDS

EA compared groundwater VOC analytical results to the NYSDEC Ambient Water Quality Standards (AWQS) of 5 micrograms per liter ($\mu\text{g/L}$) for tetrachloroethene (PCE), trichloroethene (TCE), 1,2-dichloroethene (DCE), ethylbenzene, toluene, and xylene. Ethylbenzene, toluene, xylene and 1,2-DCE exceeded the NYSDEC AWQS of 5 $\mu\text{g/L}$.

The maximum concentrations for each analyte were detected at the following wells:

- PCE: MW-22 with a concentration of 2.7 $\mu\text{g/L}$
- TCE: VEW-1 with a concentration of 1.8 $\mu\text{g/L}$
- 1,2-DCE: ASW with a concentration of 9.0 $\mu\text{g/L}$
- Ethylbenzene: ASW with a concentration of 80 $\mu\text{g/L}$
- Toluene: ASW with a concentration of 7.6 $\mu\text{g/L}$
- Xylene: ASW with a concentration of 600 $\mu\text{g/L}$

COC concentrations from the 2023 sampling event are summarized in **Table 2a** and presented on **Figure 5 and 7**. Laboratory reports are presented in **Appendix C**. Historical data is presented in **Table 3**.

When comparing COC concentrations from previous sampling events conducted by AECOM concentrations are comparable.

3.2.2 GROUNDWATER SVOC CONCENTRATION TRENDS

EA compared groundwater SVOC analytical results to the NYSDEC Ambient Water Quality Standards (AWQS). Naphthalene was the only SVOC that exceeded the NYSDEC AWQS of 10 $\mu\text{g/L}$ and in only one well, ASW, at the concentration of an estimated 61 $\mu\text{g/L}$.

7 of the 66 SVOCs analytes were detected in one or more wells. SVOC detections are summarized in **Table 2a**. Laboratory reports are presented in **Appendix C**.

3.2.3 GROUNDWATER PESTICIDE CONCENTRATION TRENDS

EA compared groundwater pesticide analytical results to the NYSDEC Ambient Water Quality Standards (AWQS). Chlordane was the only pesticide that exceeded the NYSDEC AWQS of 0.05 µg/L and in four wells, K-2, MW-15S, MW-17 and MW-22, at the concentration of an estimated 25 µg/L, 4.7 µg/L, 0.55 µg/L, and 13 µg/L, respectively.

P, P'DDT and hexachlorobenzene were detected but below NYSDEC AWQS of 0.2 µg/L and 0.04 µg/L, respectively. Pesticide detections are summarized in **Table 2a**. Laboratory reports are presented in **Appendix C**.

3.2.4 GROUNDWATER PFAS CONCENTRATION TRENDS

The PFAS sample results are summarized in **Table 2b** and **Figure 6, 8 and 9**. One or more PFAS compounds were detected in 19 out of 20 wells. 14 of the 20 wells had perfluorooctanoic acid (PFOA) and/or perfluorooctane sulfonic acid (PFOS) concentrations exceeding the NYSDEC AWQS PFAS Guidance Values of 2.7 nanograms per liter (ng/L) for PFOS and 6.7 ng/L for PFOA.

Maximum concentrations for PFOS and PFOA were detected at the corresponding wells:

- PFOS: VEW-3 with a concentration of 1,400 ng/L
- PFOA: VEW-3 with a concentration of 200 ng/L

Of the remaining 38 PFAS compounds analyzed, 15 compounds were detected in one or more wells.

Overall, the PFAS concentrations have remained consistent with the previous sampling events beside PFOA and PFOS concentrations at VEW-2. PFOS was detected at 0.95 ng/L and PFOA was detected at 3 ng/L. During the 2019 sampling event, VEW-2 had PFOS detections of 2,100 ng/L and PFOA of an estimated 71 ng/L.

Table 2 summarizes the 1,4-dioxane sample results. 1,4-dioxane was detected in 6 out of 20 wells sampled during the May 2023 sampling event. Two wells, ASW and VEW-4, exceeded the NYSDEC AWQS for 1,4-dioxane of 0.35 µg/L with concentrations of 0.46 µg/L and 0.56 µg/L, respectively.

Overall, 1,4-dioxane concentrations have remained consistent with previous sampling events.

3.3 SURFACE WATER AND SEDIMENT CONTAMINANT OF CONCERN CONCENTRATION TRENDS

Tables 4 and 5 present the surface water and sediment data.

3.3.1 SURFACE WATER TRENDS

There were no detections of VOCs in the May 2023 sampling event for the three surface water samples collected.

Phenol was the only SVOC detected in SW-3 as well as the field duplicate of SW-2 at concentrations of 1.2 J $\mu\text{g/L}$ and 2.6 J $\mu\text{g/L}$, respectively.

No pesticides were detected in any of the surface water samples.

PFOS and PFOA were detected below the NYSDEC AWQS PFAS Guidance Values of 2.7 ng/L for PFOS and 6.7 ng/L for PFOA in each of the surface water samples. PFOS and PFOA detections were below 1 ng/L found in **Table 4**.

3.3.2 SEDIMENT TRENDS

Acetone was the only VOC detected in any of the sediment samples. Acetone was detected in three parent samples, SD-01, SD-02, and SD-3 at the concentrations of 0.010 J milligrams per kilogram (mg/kg), 0.0094 J mg/kg, and 0.015 J mg/kg, respectively. Acetone is a common laboratory contaminant.

PFOS was only detected in the field duplicate of SD-02 at a concentration of 0.063 J mg/kg. PFOA was not detected in any of the sediment samples. Three other analytes (Hexafluoropropylene oxide dimer acid (HFPO-DA), N-methyl perfluoro-1-octanesulfonamide, and Perfluorohexanoic acid (PFHxA)) were detected and their concentrations can be found in **Table 5**.

1,4-dioxane was not detected in any of the sediment samples.

No pesticides were detected in any of the sediment samples.

4. CONCLUSIONS AND RECOMMENDATIONS

The results from the May 2023 sampling event indicate groundwater COC concentrations onsite remain comparable to previous groundwater concentrations. Additionally, offsite surface water and sediment samples indicate no COC exceedances. The concentrations in the former source area in the southwest quadrant of the site remain relatively static and above NYSDEC AWQS.

PFOA and/or PFOS were detected above the NYSDEC AWQS PFAS Guidance Values.

EA will continue to monitor groundwater, surface water, and sediment every five quarters.

5. REFERENCES

AECOM. 2019. *Groundwater Monitoring Report 5-Quarter Sampling Event, May, 2019*. October

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Tables

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Table 1. Summary of Samples Collected (May 2023)

Monitoring Well	Top of Casing Elevation	Total Well Depth (ft bgs)	Depth to water (ft bgs)	Groundwater Elevation (ft amsl)
MW-8S	816.04	10.59	5.61	810.43
MW-8D (obstructed)	816.02	55.20	27.40	788.62
MW-15S	816.02	9.90	3.70	812.32
MW-15D	816.13	40.04	24.82	791.31
MW-16D (formerly Flushmount)	817.08	54.80	28.51	788.57
K-2	816.98	14.23	5.34	811.64
K-3	817.23	10.54	5.61	811.62
ASW	817.44	11.67	5.94	811.50
VEW-1	816.99	8.14	5.52	811.47
VEW-2	816.99	8.56	5.68	811.31
VEW-3	817.74	8.48	6.25	811.49
VEW-4	817.49	8.25	5.89	811.60
MW-17	816.23	14.44	3.86	812.37
MW-18	817.15	14.48	5.00	812.15
MW-19	809.28	9.75	5.18	804.10
MW-20	813.82	13.17	5.41	808.41
MW-21	816.19	11.18	6.08	810.11
MW-22	815.82	9.25	3.87	811.95
MW-23	817.21	14.29	6.10	811.11
MW-24	817.48	11.22	6.32	811.16

Notes:

ft bgs = foot (feet) below ground surface

ft amsl = foot (feet) above mean sea level

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Location ID Sample Name Parent Sample ID Sample Date			ASW	K-2	K-3	MW-8S	MW-15D	MW-15S	MW-16D	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-24	VEW-1	VEW-2	VEW-3	VEW-4		
			518014-ASW	518014-K-2	518014-K-3	518014-MW-8S	518014-MW-15D	518014-MW-15S	518014-MW-16D	518014-MW-17	518014-MW-18	518014-MW-19	518014-MW-20	518014-MW-21	518014-MW-22	518014-MW-23	518014-MW-24	518014-DUP-1-GW	518014-MW-24	518014-VEW-1	518014-VEW-2	518014-VEW-3	518014-VEW-4	
			5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/24/2023	5/23/2023	5/24/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023
			Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit
Analyte	NYSDEC AWQS ¹	Unit																						
Pesticides (SW8081B)																								
Alachlor	NSL	µg/L	< 0.034 U	< 0.035 U	< 0.035 U	< 0.036 U	< 0.036 U	< 0.034 U	< 0.036 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.035 U	< 0.034 U	< 0.035 U	< 0.038 U	< 0.036 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.035 U	< 0.036 U		
Aldrin	NSL	µg/L	< 0.0066 U	< 0.0066 U	< 0.0066 U	< 0.0067 U	< 0.0066 U	< 0.0066 U	< 0.0066 U	< 0.0066 U	< 0.0066 U	< 0.0066 U	< 0.0066 U	< 0.0066 U	< 0.0066 U	< 0.0066 U	< 0.0066 U	< 0.0066 U	< 0.0066 U	< 0.0066 U	< 0.0067 U	< 0.0067 U		
Alpha Bhe (Alpha Hexachlorocyclohexane)	NSL	µg/L	< 0.0033 U	< 0.0034 U	< 0.0034 U	< 0.0042 U	< 0.0035 U	< 0.0033 U	< 0.0033 U	< 0.0033 U	< 0.0033 U	< 0.0033 U	< 0.0041 U	< 0.004 U	< 0.0034 U	< 0.004 U	< 0.0042 U	< 0.004 U	< 0.0033 U	< 0.0033 U	< 0.0034 U	< 0.0035 U		
Alpha Endosulfan	NSL	µg/L	< 0.0047 U	< 0.0048 U	< 0.0048 U	< 0.0049 U	< 0.0049 U	< 0.0049 U	< 0.0049 U	< 0.0047 U	< 0.0047 U	< 0.0047 U	< 0.0047 U	< 0.0047 U	< 0.0048 U	< 0.004 U	< 0.0049 U	< 0.0047 U	< 0.0047 U	< 0.0046 U	< 0.0048 U	< 0.005 U		
Beta Bhe (Beta Hexachlorocyclohexane)	NSL	µg/L	< 0.0075 U	< 0.0077 U	< 0.0077 U	< 0.0079 U	< 0.0079 U	< 0.0074 U	< 0.0079 U	< 0.0075 U	< 0.0075 U	< 0.0075 U	< 0.0076 U	< 0.0075 U	< 0.0077 U	< 0.0057 U	< 0.0078 U	< 0.0075 U	< 0.0074 U	< 0.0077 U	< 0.0077 U	< 0.0079 U		
Beta Endosulfan	NSL	µg/L	< 0.0035 U	< 0.0036 U	< 0.0036 U	< 0.0037 U	< 0.0037 U	< 0.0035 U	< 0.0037 U	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0036 U	< 0.0035 U	< 0.0036 U	< 0.0035 U	< 0.0036 U	< 0.0035 U	< 0.0034 U	< 0.0036 U	< 0.0037 U	< 0.0037 U		
Chlordane	0.05	µg/L	< 0.031 U	25	< 0.031 U	< 0.032 U	< 0.032 U	4.7	< 0.032 U	0.55	< 0.031 U	< 0.031 U	< 0.031 U	< 0.031 U	13	< 0.046 U	< 0.032 U	< 0.031 U	< 0.03 U	< 0.03 U	< 0.031 U	< 0.032 U		
Delta BHC (Delta Hexachlorocyclohexane)	NSL	µg/L	< 0.0054 U	< 0.0055 U	< 0.0055 U	< 0.0056 U	< 0.0056 U	< 0.0054 U	< 0.0056 U	< 0.0054 U	< 0.0054 U	< 0.0054 U	< 0.0054 U	< 0.0054 U	< 0.0054 U	< 0.0054 U	< 0.0054 U	< 0.0053 U	< 0.0053 U	< 0.0055 U	< 0.0057 U			
Dieldrin	0.004	µg/L	< 0.00092 U	< 0.00095 U	< 0.00094 U	< 0.00097 U	< 0.00097 U	< 0.00091 U	< 0.00098 U	< 0.00091 U	< 0.00092 U	< 0.00092 U	< 0.00093 U	< 0.00092 U	< 0.00095 U	< 0.0011 U	< 0.00096 U	< 0.00092 U	< 0.00091 U	< 0.00091 U	< 0.00094 U	< 0.00098 U		
Endosulfan Sulfate	NSL	µg/L	< 0.0058 U	&lt																				

Table 2a. Summary of Groundwater COC Concentrations and Exceedances (May 2023)

Location ID Sample Name Parent Sample ID Sample Date			ASW 518014-ASW	K-2 518014-K-2	K-3 518014-K-3	MW-8S 518014-MW-8S	MW-15D 518014-MW-15D	MW-15S 518014-MW-15S	MW-16D 518014-MW-16D	MW-17 518014-MW-17	MW-18 518014-MW-18	MW-19 518014-MW-19	MW-20 518014-MW-20	MW-21 518014-MW-21	MW-22 518014-MW-22	MW-23 518014-MW-23	MW-24 518014-MW-24	MW-24 518014-DUP-1-GW	VEW-1 518014-VEW-1	VEW-2 518014-VEW-2	VEW-3 518014-VEW-3	VEW-4 518014-VEW-4
Analyte			5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/24/2023	5/23/2023	5/24/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023
NYSDEC AWQS ¹			Unit																			
Acetophenone	NSL	µg/L	< 0.46 U	< 0.46 U	< 0.47 U	< 0.46 U	< 0.47 U	< 0.46 U	< 0.5 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.48 U	< 0.48 U	< 0.46 U	< 0.47 U	< 0.46 U	< 0.46 U	< 0.45 U	< 0.47 U	< 0.47 U
Anthracene	50	µg/L	< 0.5 U	< 0.5 U	< 0.51 U	< 0.49 U	< 0.51 U	< 0.49 U	< 0.54 U	< 0.49 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.52 U	< 0.52 U	< 0.49 U	< 0.51 U	< 0.5 U	< 0.5 U	< 0.49 U	< 0.51 U	< 0.51 U
Atrazine	NSL	µg/L	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U	< 1.6 U	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U	< 1.6 U	< 1.6 U	< 1.5 U	< 1.6 U	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U	< 1.6 U
Benzaldehyde	NSL	µg/L	< 0.66 U	< 0.67 U	< 0.68 U	< 0.66 U	< 0.68 U	< 0.66 U	< 0.72 U	< 0.66 U	< 0.67 U	< 0.66 U	< 0.66 U	< 0.69 U	< 0.69 U	< 0.66 U	< 0.68 U	< 0.66 U	< 0.66 U	< 0.65 U	< 0.68 U	< 0.68 U
Benzo(A)Anthracene	0.002	µg/L	< 0.35 U	< 0.35 U	< 0.35 U	< 0.34 U	< 0.35 U	< 0.34 U	< 0.38 U	< 0.34 U	< 0.35 U	< 0.35 U	< 0.36 U	< 0.36 U	< 0.34 U	< 0.36 U	< 0.36 U	< 0.35 U	< 0.35 U	< 0.34 U	< 0.35 U	< 0.36 U
Benzo(A)Pyrene	NSL	µg/L	< 0.4 U	< 0.4 U	< 0.41 U	< 0.39 U	< 0.41 U	< 0.39 U	< 0.43 U	< 0.39 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.41 U	< 0.41 U	< 0.39 U	< 0.41 U	< 0.4 U	< 0.4 U	< 0.39 U	< 0.41 U	< 0.41 U
Benzo(B)Fluoranthene	0.002	µg/L	< 0.3 U	< 0.3 U	< 0.3 U	< 0.29 U	< 0.3 U	< 0.29 U	< 0.32 U	< 0.29 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.31 U	< 0.31 U	< 0.29 U	< 0.31 U	< 0.3 U	< 0.3 U	< 0.29 U	< 0.3 U	< 0.31 U
Benzo(G,H,I)Perylene	NSL	µg/L	< 0.48 U	< 0.48 U	< 0.49 U	< 0.47 U	< 0.49 U	< 0.47 U	< 0.52 U	< 0.47 U	< 0.48 U	< 0.48 U	< 0.48 U	< 0.5 U	< 0.5 U	< 0.47 U	< 0.49 U	< 0.48 U	< 0.48 U	< 0.47 U	< 0.49 U	< 0.49 U
Benzo(K)Fluoranthene	0.002	µg/L	< 0.42 U	< 0.42 U	< 0.43 U	< 0.42 U	< 0.43 U	< 0.42 U	< 0.46 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.44 U	< 0.44 U	< 0.42 U	< 0.43 U	< 0.42 U	< 0.41 U	< 0.43 U	< 0.43 U	< 0.43 U
Benzyl Butyl Phthalate	50	µg/L	< 0.36 U	< 0.37 U	< 0.37 U	< 0.36 U	< 0.37 U	< 0.36 U	< 0.4 U	< 0.36 U	< 0.37 U	< 0.36 U	< 0.37 U	< 0.38 U	< 0.38 U	< 0.36 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.37 U	< 0.37 U
Biphenyl (Diphenyl)	5	µg/L	1.6 J	< 0.85 U	< 0.86 U	< 0.84 U	< 0.86 U	< 0.84 U	< 0.92 U	< 0.84 U	< 0.85 U	< 0.85 U	< 0.85 U	< 0.88 U	< 0.88 U	< 0.84 U	< 0.87 U	< 0.85 U	< 0.85 U	< 0.83 U	< 0.86 U	< 0.87 U
Bis(2-Chloroethoxy) Methane	5	µg/L	< 0.53 U	< 0.53 U	< 0.54 U	< 0.52 U	< 0.54 U	< 0.52 U	< 0.58 U	< 0.52 U	< 0.53 U	< 0.53 U	< 0.53 U	< 0.55 U	< 0.55 U	< 0.52 U	< 0.54 U	< 0.53 U	< 0.53 U	< 0.52 U	< 0.54 U	< 0.54 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	µg/L	< 0.42 U	< 0.42 U	< 0.43 U	< 0.42 U	< 0.43 U	< 0.42 U	< 0.46 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.44 U	< 0.44 U	< 0.42 U	< 0.43 U	< 0.42 U	< 0.41 U	< 0.42 U	< 0.43 U	< 0.43 U
Bis(2-Chloroisopropyl) Ether	5	µg/L	< 0.69 U	< 0.69 U	< 0.7 U	< 0.68 U	< 0.7 U	< 0.68 U	< 0.75 U	< 0.68 U	< 0.69 U	< 0.69 U	< 0.69 U	< 0.71 U	< 0.71 U	< 0.68 U	< 0.71 U	< 0.69 U	< 0.69 U	< 0.68 U	< 0.7 U	< 0.71 U
Bis(2-Ethylhexyl) Phthalate	5	µg/L	< 0.3 U	< 0.3 U	< 0.3 U	< 0.29 U	< 0.3 U	< 0.29 U	< 0.32 U	< 0.29 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.31 U	< 0.31 U	< 0.29 U	< 0.31 U	< 0.3 U	< 0.3 U	< 0.29 U	< 0.3 U	< 0.31 U
Caprolactam	NSL	µg/L	< 0.66 U	< 0.66 U	< 0.67 U	< 0.65 U	< 0.67 U	< 0.65 U	< 0.72 U	< 0.65 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.68 U	< 0.68 U	< 0.65 U	< 0.68 U	< 0.66 U	< 0.66 U	< 0.65 U	< 0.67 U	< 0.68 U
Carbazole	NSL	µg/L	< 0.42 U	< 0.42 U	< 0.43 U	< 0.42 U	< 0.43 U	< 0.42 U	< 0.46 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.44 U	< 0.44 U	< 0.42 U	< 0.43 U	< 0.42 U	< 0.41 U	< 0.42 U	< 0.43 U	< 0.43 U
Chrysene	0.002	µg/L	< 0.42 U	< 0.42 U	< 0.43 U	< 0.42 U	< 0.43 U	< 0.42 U	< 0.46 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.42 U	< 0.44 U	< 0.44 U	< 0.42 U	< 0.43 U	< 0.42 U	< 0.41 U	< 0.42 U	< 0.43 U	< 0.43 U
Dibenz(A,H)Anthracene	NSL	µg/L	< 0.44 U	< 0.44 U	< 0.44 U	< 0.43 U	< 0.44 U	< 0.43 U	< 0.48 U	< 0.43 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.45 U	< 0.45 U	< 0.43 U	< 0.45 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.45 U
Dibenzofuran	NSL	µg/L	< 0.79 U	< 0.79 U	< 0.8 U	< 0.78 U	< 0.8 U	< 0.78 U	< 0.86 U	< 0.78 U	< 0.79 U	< 0.79 U	< 0.79 U	< 0.82 U	< 0.82 U	< 0.78 U	< 0.81 U	< 0.79 U	< 0.79 U	< 0.77 U	< 0.8 U	< 0.81 U
Diethyl Phthalate	50	µg/L	< 0.51 U	< 0.52 U	< 0.52 U	< 0.51 U	< 0.52 U	< 0.51 U	< 0.56 U	< 0.51 U	< 0.52 U	< 0.52 U	< 0.51 U	< 0.53 U	< 0.53 U	< 0.51 U	< 0.53 U	< 0.51 U	< 0.51 U	< 0.5 U	< 0.52 U	< 0.53 U
Dimethyl Phthalate	50	µg/L	< 0.4 U	< 0.4 U	< 0.41 U	< 0.4 U	< 0.41 U	< 0.4 U	< 0.44 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.42 U	< 0.42 U	< 0.4 U	< 0.41 U	< 0.4 U	< 0.4 U	< 0.39 U	< 0.41 U	< 0.41 U
Di-N-Butyl Phthalate	50	µg/L	< 0.46 U	< 0.46 U	< 0.47 U	< 0.46 U	< 0.47 U	< 0.46 U	< 0.5 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.46 U	< 0.48 U	< 0.48 U	< 0.46 U	< 0.47 U	< 0.46 U	0.72 J	< 0.45 U	< 0.47 U	< 0.47 U
Di-N-Octylphthalate	50	µg/L	< 0.3 U	< 0.3 U	< 0.31 U	< 0.3 U	< 0.31 U	< 0.3 U	< 0.33 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U	< 0.31 U	< 0.31 U	< 0.3 U	< 0.31 U	< 0.3 U	< 0.3 U	< 0.29 U	< 0.31 U	< 0.31 U
Fluoranthene	50	µg/L	< 0.52 U	< 0.52 U	< 0.53 U	< 0.51 U	< 0.53 U	< 0.51 U	< 0.56 U	< 0.51 U	< 0.52 U	< 0.52 U	< 0.52 U	< 0.54 U	< 0.54 U	< 0.51 U	< 0.53 U	< 0.52 U	< 0.52 U	< 0.51 U	< 0.53 U	< 0.53 U
Fluorene	50	µg/L	0.74 J	< 0.7 U	< 0.71 U	< 0.69 U	< 0.71 U	< 0.69 U	< 0.76 U	< 0.69 U	< 0.7 U	< 0.7 U	< 0.7 U	< 0.72 U	< 0.72 U	< 0.69 U	< 0.72 U	< 0.7 U	< 0.7 U	< 0.68 U	< 0.71 U	< 0.72 U
Hexachlorobenzene	0.04	µg/L	< 0.66 U	< 0.67 U	< 0.67 U	< 0.66 U	< 0.67 U	< 0.66 U	< 0.66 U	< 0.67 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.69 U	< 0.69 U	< 0.66 U	< 0.68 U	< 0.66 U	< 0.66 U	< 0.65 U	< 0.67 U	< 0.68 U
Hexachlorobutadiene	0.5	µg/L	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.2 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.2 U	< 1.2 U	< 1.1 U	< 1.2 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.2 U	< 1.2 U
Hexachlorocyclopentadiene	5	µg/L	< 2.6 U	< 2.6 U	< 2.7 U	< 2.6 U	< 2.7 U	< 2.6 U	< 2.8 U	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U	< 2.7 U	< 2.7 U	< 2.6 U	< 2.7 U	< 2.6 U	< 2.6 U	< 2.6 U	< 2.7 U	< 2.7 U
Hexachloroethane	5	µg/L	< 1.1 U	< 1.2 U	< 1.2 U	< 1.1 U	< 1.2 U	< 1.1 U	< 1.2 U	< 1.1 U	< 1.2 U	< 1.2 U	< 1.1 U	< 1.2 U	< 1.2 U	< 1.1 U	< 1.2 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.2 U	< 1.2 U
Indeno(1,2,3-C,D)Pyrene	0.002	µg/L	< 0.44 U	< 0.44 U	< 0.44 U	< 0.43 U	< 0.44 U	< 0.43 U	< 0.48 U	< 0.43 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.45 U	< 0.45 U	< 0.43 U	< 0.44 U	< 0.45 U	< 0.44 U	< 0.43 U	< 0.44 U	< 0.45 U
Isophorone	50	µg/L	< 0.5 U	< 0.5 U	< 0.51 U	< 0.49 U	< 0.51 U	< 0.49 U	< 0.54 U	< 0.49 U	< 0.5 U	< 0.5 U	< 0.5 U	< 0.52 U	< 0.52 U	< 0.49 U	< 0.51 U	< 0.5 U	< 0.5 U	< 0.49 U	< 0.51 U	< 0.51 U
Naphthalene	10	µg/L	61	< 0.84 U	< 0.85 U	< 0.82 U	< 0.85 U	< 0.82 U	< 0.9 U	< 0.82 U	< 0.84 U	< 0.84 U	< 0.83 U	< 0.86 U	< 0.86 U	< 0.82 U	< 0.85 U	< 0.83 U	< 0.83 U	< 0.81 U	< 0.85 U	< 0.85 U
Nitrobenzene	0.4	µg/L	< 0.62 U	< 0.63 U	< 0.63 U	< 0.61 U	< 0.63 U	< 0.61 U	< 0.68 U	< 0.61 U	< 0.63 U	< 0.63 U	< 0.62 U	< 0.64 U	< 0.64 U	< 0.61 U	< 0.64 U	< 0.62 U	< 0.62 U	< 0.61 U	< 0.63 U	< 0.64 U
N-Nitrosodi-N-Propylamine	NSL	µg/L	< 0.6 U	< 0.61 U	< 0.61 U	< 0.6 U	< 0.61 U	< 0.6 U	< 0.65 U	< 0.6 U	< 0.61 U	< 0.61 U	< 0.6 U	< 0.62 U	< 0.62 U	< 0.6 U	< 0.62 U	< 0.6 U	< 0.6 U	< 0.59 U	< 0.61 U	< 0.62 U
N-Nitrosodiphenylamine	50	µg/L	< 0.44 U	< 0.44 U	< 0.45 U	< 0.44 U	< 0.45 U	< 0.44 U	< 0.48 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.46 U	< 0.46 U	< 0.44 U	< 0.45 U	< 0.44 U	< 0.44 U	< 0.43 U	< 0.45 U	< 0.45 U
Pentachlorophenol	1	µg/L	0.63 J	< 0.44 U	< 0.45 U	< 0.44 U	< 0.45 U	< 0.44 U	< 0.48 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.46 U	< 0.46 U	< 0.44 U	< 0.45 U	< 0.44 U	< 0.44 U	< 0.43 U	< 0.45 U	< 0.45 U
Phenanthrene	50	µg/L	< 0.66 U	< 0.66 U	< 0.67 U	< 0.65 U	< 0.67 U	< 0.65 U	< 0.72 U	< 0.65 U	< 0.66 U	< 0.66 U	< 0.66 U	< 0.68 U	< 0.68 U	< 0.65 U	< 0.68 U	< 0.66 U	< 0.66 U	< 0.65 U	< 0.67 U	< 0.68 U
Phenol	NSL	µg/L	< 0.54 U	< 0.55 U	< 0.55 U	< 0.54 U	< 0.55 U	< 0.55 U	3.3 J	< 0.54 U	< 0.55 U	< 0.55 U	< 0.54 U	< 0.56 U	< 0.56 U	< 0.54 U	< 0.54 U	< 0.54 U	< 0.53 U	< 0.54 U	< 0.55 U	< 0.56 U
Pyrene	50	µg/L	< 0.42 U	< 0.43 U	< 0.43 U	< 0.42 U	< 0.43 U	< 0.42 U	< 0.46 U	&lt												

Table 2b. Summary of Groundwater PFAS Concentrations and Exceedances (May 2023)

Location ID			ASW	K-2	K-3	MW-8S	MW-15D	MW-15S	MW-16D	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-24	VEW-1	VEW-2	VEW-3	VEW-4
Sample Name			518014-ASW	518014-K-2	518014-K-3	518014-MW-8S	518014-MW-15D	518014-MW-15S	518014-MW-16D	518014-MW-17	518014-MW-18	518014-MW-19	518014-MW-20	518014-MW-21	518014-MW-22	518014-MW-23	518014-MW-24	518014-DUP-1-GW	518014-VEW-1	518014-VEW-2	518014-VEW-3	518014-VEW-4
Parent Sample ID																						
Sample Date			5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/24/2023	5/23/2023	5/24/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023
Analyte	NYSDE																					
	C	Unit																				
AWQS ¹																						
PFAS (EPA 1633)																						
11-Chloroicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NSL	ng/L	< 0.84 U	< 0.87 U	< 0.86 U	< 0.88 U	< 0.89 U	< 0.88 U	< 0.87 U	< 0.87 U	< 0.88 U	< 0.88 U	< 0.87 U	< 0.88 U	< 0.84 U	< 0.92 U	< 0.88 U	< 0.88 U	< 0.87 U	< 0.88 U	< 0.89 U	< 0.89 U
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	< 0.94 U	< 0.97 U	< 0.96 U	< 0.98 U	< 1 U	< 0.98 U	< 0.98 U	< 0.97 U	< 0.99 U	< 0.99 U	< 0.98 U	< 0.98 U	< 0.95 U	< 1 U	< 0.99 U	< 0.99 U	< 0.97 U	< 0.98 U	< 1 U	< 0.99 U
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	< 0.61 U	< 0.63 U	< 0.62 U	< 0.63 U	< 0.64 U	< 0.63 U	< 0.63 U	< 0.62 U	< 0.64 U	< 0.64 U	< 0.63 U	< 0.63 U	< 0.61 U	< 0.66 U	< 0.63 U	< 0.63 U	< 0.63 U	< 0.63 U	< 0.64 U	< 0.64 U
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	< 0.86 U	< 0.89 U	< 0.88 U	< 0.9 U	< 0.91 U	< 0.89 U	2.5 J	< 0.88 U	< 0.9 U	< 0.9 U	< 0.89 U	< 0.89 U	< 0.86 U	< 0.93 U	< 0.9 U	< 0.9 U	< 0.89 U	< 0.9 U	< 0.91 U	< 0.9 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NSL	ng/L	< 2.1 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.3 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.1 U	< 2.3 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.3 U	< 2.2 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NSL	ng/L	< 2.3 U	< 2.4 U	< 2.3 U	< 2.4 U	< 2.4 U	< 2.4 U	< 2.4 U	< 2.4 U	< 2.4 U	< 2.4 U	< 2.4 U	< 2.4 U	< 2.3 U	< 2.5 U	< 2.4 U	< 2.4 U	< 2.4 U	< 2.4 U	< 2.4 U	< 2.4 U
2H,2H,3H,3H-Perfluorooctanoic acid	NSL	ng/L	< 8.9 U	< 9.2 U	< 9.1 U	< 9.3 U	< 9.4 U	< 9.2 U	< 9.1 U	< 9.3 U	< 9.3 U	< 9.2 U	< 9.3 U	< 9.3 U	< 8.9 U	< 9.7 U	< 9.3 U	< 9.3 U	< 9.2 U	< 9.3 U	< 9.4 U	< 9.4 U
3-Perfluoroheptyl propanoic acid	NSL	ng/L	< 7.6 U	< 7.9 U	< 7.8 U	< 8 U	< 8.1 U	< 8 U	< 8 U	< 7.9 U	< 8 U	< 8 U	< 8 U	< 8 U	< 7.7 U	< 8.3 U	< 8 U	< 8 U	< 7.9 U	< 8 U	< 8.1 U	< 8.1 U
3-Perfluoropropyl propanoic acid	NSL	ng/L	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.7 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.7 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.7 U	< 1.6 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	< 0.6 U	< 0.62 U	< 0.61 U	< 0.62 U	< 0.63 U	< 0.62 U	< 0.62 U	< 0.62 U	< 0.63 U	< 0.63 U	< 0.62 U	< 0.62 U	< 0.6 U	< 0.65 U	< 0.62 U	< 0.63 U	< 0.62 U	< 0.62 U	< 0.63 U	< 0.63 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NSL	ng/L	< 0.74 U	< 0.77 U	< 0.76 U	< 0.77 U	< 0.79 U	< 0.77 U	< 0.77 U	< 0.76 U	< 0.78 U	< 0.78 U	< 0.77 U	< 0.77 U	< 0.74 U	< 0.81 U	< 0.77 U	< 0.78 U	< 0.77 U	< 0.77 U	< 0.79 U	< 0.78 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	< 0.91 U	< 0.94 U	< 0.93 U	< 0.95 U	< 0.97 U	< 0.95 U	< 0.94 U	< 0.94 U	< 0.95 U	< 0.95 U	< 0.94 U	< 0.95 U	< 0.91 U	< 0.99 U	< 0.95 U	< 0.95 U	< 0.94 U	< 0.95 U	< 0.97 U	< 0.96 U
N-ethyl perfluoro-1-octanesulfonamide	NSL	ng/L	< 0.27 U	< 0.28 U	< 0.27 U	< 0.28 U	< 0.28 U	< 0.28 U	< 0.28 U	< 0.28 U	< 0.28 U	< 0.28 U	< 0.28 U	< 0.28 U	< 0.27 U	< 0.29 U	< 0.28 U	< 0.28 U	< 0.28 U	< 0.28 U	< 0.28 U	< 0.28 U
N-ethyl perfluorooctanesulfonamidoacetic acid	NSL	ng/L	2.6	0.59 J	< 0.2 U	< 0.2 U	< 0.2 U	4.1	< 0.2 U	45	0.97	1.1	< 0.2 U	8.4	0.24 J	< 0.21 U	< 0.2 U	< 0.2 U	23	< 0.2 U	5.5	29
N-methyl perfluoro-1-octanesulfonamide	NSL	ng/L	< 0.36 U	< 0.37 U	< 0.37 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	< 0.37 U	< 0.38 U	< 0.38 U	< 0.37 U	< 0.38 U	< 0.36 U	< 0.39 U	< 0.38 U	< 0.38 U	< 0.37 U	< 0.38 U	< 0.38 U	< 0.38 U
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NSL	ng/L	< 0.38 U	< 0.4 U	< 0.39 U	< 0.4 U	< 0.41 U	< 0.4 U	< 0.4 U	1.2	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.38 U	< 0.42 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.4 U	< 0.41 U	< 0.4 U
Nonafluoro-3,6-dioxaheptanoic acid	NSL	ng/L	< 0.75 U	< 0.78 U	< 0.77 U	< 0.79 U	< 0.8 U	< 0.79 U	< 0.78 U	< 0.78 U	< 0.79 U	< 0.79 U	< 0.78 U	< 0.78 U	< 0.76 U	< 0.82 U	< 0.79 U	< 0.79 U	< 0.78 U	< 0.79 U	< 0.8 U	< 0.79 U
Perfluoro(2-ethoxyethane)sulfonic acid	NSL	ng/L	< 0.43 U	< 0.44 U	< 0.43 U	< 0.44 U	< 0.45 U	< 0.44 U	< 0.44 U	< 0.44 U	< 0.45 U	< 0.45 U	< 0.44 U	< 0.44 U	< 0.43 U	< 0.46 U	< 0.45 U	< 0.45 U	< 0.44 U	< 0.44 U	< 0.45 U	< 0.45 U
Perfluoro-3-methoxypropanoic acid	NSL	ng/L	< 0.43 U	< 0.45 U	< 0.44 U	< 0.45 U	< 0.46 U	< 0.45 U	< 0.45 U	< 0.45 U	< 0.45 U	< 0.45 U	< 0.45 U	< 0.45 U	< 0.43 U	< 0.47 U	< 0.45 U	< 0.45 U	< 0.45 U	< 0.45 U	< 0.46 U	< 0.46 U
Perfluoro-4-methoxybutanoic acid	NSL	ng/L	< 0.35 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.37 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.35 U	< 0.38 U	< 0.37 U	< 0.37 U	< 0.36 U	< 0.36 U	< 0.37 U	< 0.37 U
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	1.7	1.8	2.1	2.4	< 0.24 U	1.5	0.57 J	1.7	1	2.9	4.6	3.8	6.2	< 0.25 U	1.5	1.7	2	0.67 J	6.2	2
Perfluorobutanoic Acid	NSL	ng/L	4.7	2.3 J	2.1 J	< 1.3 U	1.7 J	1.7 J	2.1 JB	17	< 1.3 U	4.4 B	3.1 J	< 1.3 U	33	< 1.4 U	1.9 J	1.9 J	< 1.3 U	< 1.3 U	8	61
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	< 0.27 U	< 0.28 U	< 0.28 U	< 0.28 U	< 0.29 U	< 0.28 U	< 0.28 U	< 0.28 U	< 0.29 U	< 0.29 U	< 0.28 U	< 0.28 U	< 0.27 U	< 0.3 U	< 0.28 U	< 0.29 U	< 0.28 U	< 0.28 U	< 0.29 U	< 0.29 U
Perfluorodecanoic acid (PFDA)	NSL	ng/L	0.20 J	0.24 J	< 0.16 U	< 0.17 U	< 0.17 U	0.69 J	< 0.17 U	1.2	0.17 J	0.18 J	< 0.17 U	< 0.17 U	14	< 0.17 U	0.17 J	< 0.17 U	< 0.17 U	0.20 J	0.60 J	
Perfluorododecanesulfonic acid (PFDOS)	NSL	ng/L	< 0.23 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.25 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.23 U	< 0.25 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.25 U	< 0.24 U	< 0.24 U
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	< 0.22 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.24 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.24 U	< 0.24 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.24 U	< 0.23 U	< 0.23 U	< 0.23 U	< 0.24 U	< 0.24 U	< 0.24 U
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	0.31 J	14	2.8	< 0.28 U	< 0.28 U	< 0.28 U	< 0.28 U	3.2	2.6	0.29 J	< 0.28 U	2.1	6.3	< 0.29 U	0.65 J	0.84 J	16	< 0.28 U	65	11
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	2.2	5.9	0.98	< 0.23 U	< 0.24 U	1.3	0.59 J	2.9	0.98	2.6	1.8	3.4	8.6	< 0.24 U	1.7	1.5	2.4	0.61 J	19	7.2
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	1.1	9.2	3.6	0.97	< 0.19 U	0.90 J	0.33 J	1.2	2.3	1.1	0.60 J	4.1	19	< 0.19 U	0.98	1.2	5	0.24 J	70	11
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	4.5	2.6	1.2	< 0.2 U	< 0.2 U	1	0.81 J	2.3	0.74 J	4	2.6	3.3	7.3	< 0.2 U	1.2	1.2	2.1	0.64 J	12	4.1
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	< 0.26 U	< 0.26 U	< 0.26 U	< 0.27 U	< 0.27 U	< 0.27 U	< 0.26 U	< 0.27 U	< 0.27 U	< 0.27 U	< 0.27 U	< 0.27 U	< 0.26 U	< 0.28 U	< 0.27 U	< 0.27 U	< 0.26 U	< 0.27 U	< 0.27 U	0.65 J
Perfluorononanoic acid (PFNA)	NSL	ng/L	1																			

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			ASW 1/10/2012 ASW	ASW 10/13/2015 ASW-20151013	ASW 12/8/2015 ASW 120815-20151208	ASW 3/8/2016 ASW 030816-20160308	ASW 5/31/2016 ASW 053116	ASW 9/14/2016 ASW 091416	ASW 12/6/2016 ASW 120616	ASW 3/16/2017 ASW 031617	ASW 6/14/2017 ASW 061417	ASW 5/14/2019 ASW 051419-20190514	ASW 5/23/2023 518014-ASW	GW-1 7/7/2014 GW-11-20140707
Analyte	NYSDEC AWQS ¹	Unit												
PFAS (E537/E1633)														
11-Chloroicosalfluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.5 U	NA
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 330 U	< 3.5 U	NA
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.5 U	NA
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 81 U	< 3.5 U	NA
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 43 U	NA
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 43 U	NA
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 8.7 U	NA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.5 U	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.5 U	NA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.5 U	NA
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.87 U	NA
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	170 J	2.6	NA
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 8.7 U	NA
N-methyl perfluorooctanesulfonamide (NMtFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.87 U	NA
N-methyl perfluorooctanesulfonamidoacetic acid (NMtFOSAA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 330 UJ	< 0.87 U	NA
N-methyl perfluorooctanesulfonamidoethanol (NMtFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 8.7 U	NA
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.7 U	NA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.7 U	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.7 U	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.7 U	NA
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	< 0.92 U	< 2.0 U	22 J	1.7	NA
Perfluorobutanoic Acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 8.1 UJ	4.7	NA
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 8.1 U	< 0.87 U	NA
Perfluorodecanoic acid (PFDA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 33 UJ	0.20 J	NA
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.87 U	NA
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 33 U	< 0.87 U	NA
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.5 J	0.31 J	NA
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	11	7.5	8.1 J	2.2	NA
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	5.4	5.9	12 J	1.1	NA
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.2 J	4.5	NA
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.87 U	NA
Perfluorononanoic acid (PFNA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	5	3.6	6.5 J	1	NA
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 8.1 UJ	0.46 J	NA
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	NA	NA	NA	NA	NA	NA	NA	310	290	240 J	19	NA
Perfluorooctanoic acid (PFOA)	6.7	ng/L	NA	NA	NA	NA	NA	NA	NA	21	21	24 J	5.9	NA
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.87 U	NA
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 8.1 U	1.9	NA
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 8.1 U	< 0.87 U	NA
Perfluorotridecanoic Acid (PFTriA/PFTriDA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 33 U	< 0.87 U	NA
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 33 UJ	< 0.87 U	NA
VOCS (SW8260)														
1,1,1,2-Tetrachloroethane	5	µg/L	NA	< 5.0 U	< 20 U	< 7.0 U	< 7.0 U	< 7.0 U	< 7.0 U	< 7.0 U	< 8.0 U	NA	NA	< 1.0 U
1,1,1-Trichloroethane (TCA)	5	µg/L	< 1.0 U	< 5.0 U	< 20 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 8.0 U	< 2.0 U	< 10 U	< 1.0 U
1,1,2,2-Tetrachloroethane	5	µg/L	< 1.0 U	< 5.0 U	< 20 U	< 4.2 U	< 4.2 U	< 4.2 U	< 4.2 U	< 4.2 U	< 8.0 U	< 2.0 U	< 5 U	< 1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 1.0 U	< 5.0 U	< 20 U	< 6.2 U	< 6.2 U	< 6.2 U	< 6.2 U	< 6.2 U	< 8.0 U	< 2.0 U	< 10 U	< 1.0 U
1,1,2-Trichloroethane	1	µg/L	< 1.0 U	< 5.0 U	< 20 U	< 4.6 U	< 4.6 U	< 4.6 U	< 4.6 U	< 4.6 U	< 8.0 U	< 2.0 U	< 10 U	< 1.0 U
1,1-Dichloroethane	5	µg/L	< 1.0 U	< 5.0 U	< 20 U	< 7.6 U	< 7.6 U	< 7.6 U	< 7.6 U	< 7.6 U	< 8.0 U	< 2.0 U	< 10 U	< 1.0 U
1,1-Dichloroethene	5	µg/L	< 1.0 U	< 5.0 U	< 20 U	< 5.8 U	< 5.8 U	< 5.8 U	< 5.8 U	< 5.8 U	< 8.0 U	< 2.0 U	< 10 U	< 1.0 U
1,1-Dichloropropene	5	µg/L	NA	< 5.0 U	< 20 U	< 14 U	< 14 U	< 14 U	< 14 U	< 14 U	< 8.0 U	NA	NA	< 1.0 U
1,2,3-Trichlorobenzene	5	µg/L	NA	< 5.0 U	< 20 U	< 8.2 U	< 8.2 U	< 8.2 U	< 8.2 U	< 8.2 U	< 8.0 U	NA	< 50 U	< 1.0 U
1,2,3-Trichloropropane	0.04	µg/L	NA	< 5.0 U	< 20 U	< 18 U	< 18 U	< 18 U	< 18 U	< 18 U	< 8.0 U	NA	NA	< 1.0 U
1,2,4-Trichlorobenzene	5	µg/L	< 1.0 U	< 5.0 U	< 20 U	< 8.2 U	< 8.2 U	< 8.2 U	< 8.2 U	< 8.2 U	< 8.0 U	< 2.0 U	< 10 U	< 1.0 U
1,2,4-Trimethylbenzene	NSL	µg/L	NA	420	950	880	970	840	940	1100	1000	810	NA	< 1.0 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 1.0 U	< 5.0 U	< 20 U	< 7.8 U	< 7.8 U	< 7.8 U	< 7.8 U	< 7.8 U	< 8.0 U	< 2.0 U	< 50 U	< 1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	NSL	µg/L	< 1.0 U	< 5.0 U	< 20 U	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U	< 8.0 U	< 2.0 U	< 5 U	< 1.0 U
1,2-Dichlorobenzene	3	µg/L	35	24	31	28	35	27	32	34	31	29	26	< 1.0 U
1,2-Dichloroethane	0.6	µg/L	< 1.0 U	< 5.0 U	< 20 U	< 4.2 U	< 4.2 U	< 4.2 U	< 4.2 U	< 4.2 U	< 8.0 U	< 2.0 U	< 10 U	< 1.0 U
1,2-Dichloropropane	1	µg/L	< 1.0 U	< 5.0 U	< 20 U	< 14 U	< 14 U	< 14 U	< 14 U	< 14 U	< 8.0 U	< 2.0 U	< 10 U	< 1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	NSL	µg/L	NA	260	310	340	380	320	330	380	320	280	NA	< 1.0 U
1,3-Dichlorobenzene	3	µg/L	< 1.0 U	< 5.0 U	< 20 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 8.0 U	0.69 J	< 10 U	< 1.0 U
1,3-Dichloropropane	5	µg/L	NA	< 5.0 U	< 20 U	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U	< 8.0 U	NA	NA	< 1.0 U
1,4-Dichlorobenzene	3	µg/L	5.1	< 5.0 U	< 20 U	< 17 U	< 17 U	< 17 U	< 17 U	< 17 U	< 8.0 U	4.5	3.7 J	< 1.0 U
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	NA	NA	NA	NA	< 0.20 U	NA	NA	NA	NA
2,2-Dichloropropane	NSL	µg/L	NA	< 5.0 U	< 20 U	< 8.0 U	< 8.0 U	< 8.0 U	< 8.0 U	< 8.0 U	< 8.0 U	NA	NA	< 1.0 U
2-Chlorotoluene	NSL	µg/L	NA	< 5.0 U	< 20 U	< 17 U	< 17 U	< 17 U	< 17 U	< 17 U	< 8.0 U	NA	NA	< 1.0 U
2-Hexanone	50	µg/L	< 5.0 U	< 25 U	< 100 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 40 U	< 10 U	< 100 U	< 5.0 U
4-Chlorotoluene	NSL	µg/L	NA	< 5.0 U	< 20 U	< 17 U	< 17 U	< 17 U	< 17 U	< 17 U	< 8.0 U	NA	NA	< 1.0 U
Acetone	50	µg/L	10	22 J	76 J	150 J	190 J	160 J	130 J	< 60 U	30 J	< 10 U	< 500 U	11
Benzene	1	µg/L	< 1.0 U	< 5.0 U	< 20 U	< 8.2 U	< 8.2 U	< 8.2 U	< 8.2 U	< 8.2 U	< 8.0 U	< 2.0 U	< 10 U	< 1.0 U
Bromobenzene	NSL	µg/L	NA	< 5.0 U	< 20 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 8.0 U	NA	NA	< 1.0 U
Bromochloromethane	5	µg/L	NA	< 5.0 U	< 20 U	< 17 U	< 17 U	< 17 U	< 17 U	< 17 U	< 8.0 U	NA	< 10 U	< 1.0 U
Bromodichloromethane	50	µg/L	< 1.0 U	< 5.0 U	< 20 U	< 7.8 U	< 7.8 U	< 7.8 U	< 7.8 U	< 7.8 U	< 8.0 U	< 2.0 U	< 5 U	< 1.0 U
Bromoform	50	µg/L	< 1.0 U	< 5.0 U	< 20 U	< 5.2 U	< 5.2 U	< 5.2 U	< 5.2 U	< 5.2 U	< 8.0 U	< 2.0 U	< 10 U	< 1.0 U

Notes:

(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).

µg/L = Microgram(s) per liter

J = Concentration is estimated

J+ = Concentration is estimated, biased high

NA = Not analyzed

ng/L = Nanogram(s) per liter

NSL - No screening level available

U = Analyte not detected

Concentrations exceeding the screening level are shaded gray

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

		Location ID	ASW	ASW	ASW	ASW	ASW	ASW	ASW	ASW	ASW	ASW	ASW	ASW	GW-1
		Sample Date	1/10/2012	10/13/2015	12/8/2015	3/8/2016	5/31/2016	9/14/2016	12/6/2016	3/16/2017	6/14/2017	ASW 051419-20190514	ASW 518014-ASW	GW-I	
		Parent Sample ID	ASW	ASW-20151013	ASW 120815-20151208	ASW 030816-20160308	ASW 053116	ASW 091416	ASW 12016	ASW 031617	ASW 061417			7/7/2014	
Analyte	NYSDEC AQS ¹	Unit												GW-II-20140707	
Bromomethane	5	µg/L	<1.0 U	<5.0 U	<20 U	<14 U	<14 U	<14 U	<14 U	<14 U	<8.0 U	<2.0 U	<20 U	<1.0 U	
Carbon Disulfide	60	µg/L	<1.0 U	<5.0 U	<20 U	<3.8 U	<3.8 U	4.8 J	4.5 J	11 J	8.4	<2.0 U	<50 U	0.44 J	
Carbon Tetrachloride	5	µg/L	<1.0 U	<5.0 U	<20 U	<5.4 U	<5.4 U	<5.4 U	<5.4 U	<5.4 U	<8.0 U	<2.0 U	<50 U	<1.0 U	
Chlorobenzene	5	µg/L	<1.0 U	<5.0 U	<20 U	<15 U	<15 U	<15 U	<15 U	<15 U	<8.0 U	<2.0 U	<10 U	<1.0 U	
Chloroethane	5	µg/L	0.42 J	<5.0 U	<20 U	<6.4 U	14 J	<6.4 U	<6.4 U	<6.4 U	<8.0 U	<2.0 U	<20 U	<1.0 U	
Chloroform	7	µg/L	<1.0 U	<5.0 U	<20 U	<6.8 U	<6.8 U	<6.8 U	<6.8 U	<6.8 U	<8.0 U	<2.0 U	<20 U	<1.0 U	
Chloromethane (Methyl Chloride)	NSL	µg/L	<1.0 U	<5.0 U	<20 U	50	70	<7.0 U	<7.0 U	<7.0 U	<8.0 U	<2.0 U	<20 U	<1.0 U	
Cis-1,2-Dichloroethylene	5	µg/L	26	24	<20 U	<16 U	<16 U	<16 U	<16 U	<16 U	<8.0 U	5.9	9.0 J	<1.0 U	
Cis-1,3-Dichloropropene	0.4	µg/L	<1.0 U	<5.0 U	<20 U	<7.2 U	<7.2 U	<7.2 U	<7.2 U	<7.2 U	<8.0 U	<2.0 U	<5 U	<1.0 U	
Cyclohexane	NSL	µg/L	4.6	<5.0 U	<20 U	<3.6 U	<3.6 U	<3.6 U	<3.6 U	<3.6 U	4.1 J	2.3	<50 U	<1.0 U	
Cymene	NSL	µg/L	NA	37	39	47	58	41	43	54	46	44	NA	<1.0 U	
Dibromochloromethane	50	µg/L	<1.0 U	<5.0 U	<20 U	<6.4 U	<6.4 U	<6.4 U	<6.4 U	<6.4 U	<8.0 U	<2.0 U	<5 U	<1.0 U	
Dibromomethane	5	µg/L	NA	<5.0 U	<20 U	<8.2 U	<8.2 U	<8.2 U	<8.2 U	<8.2 U	<8.0 U	NA	NA	<1.0 U	
Dischlorodifluoromethane	5	µg/L	<1.0 U	<5.0 U	<20 U	<14 U	<14 U	<14 U	<14 U	<14 U	<8.0 U	<2.0 U	<10 U	<1.0 U	
Ethylbenzene	5	µg/L	160	110	120	130	140	94	140	160	150	110	80	<1.0 U	
Hexachlorobutadiene	0.5	µg/L	NA	<5.0 U	<20 U	<5.6 U	<5.6 U	<5.6 U	<5.6 U	<5.6 U	<8.0 U	NA	NA	<1.0 U	
Iodomethane (Methyl Iodide)	NSL	µg/L	NA	<5.0 U	<20 U	<6.0 U	<6.0 U	<6.0 U	<6.0 U	<6.0 U	<8.0 U	NA	NA	<1.0 U	
Isopropylbenzene (Cumene)	5	µg/L	56	34	43	43	56	37	42	57	44	49	35	<1.0 U	
Methyl Acetate	NSL	µg/L	<1.0 U	<13 U	<50 U	<26 U	<26 U	<26 U	<26 U	<26 U	<20 U	<10 U	<10 U	<2.5 U	
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	8.9 J	12 J	<200 U	<26 U	<26 U	<26 U	<26 U	<26 U	<80 U	14	<200 U	<10 U	
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	<5.0 U	<25 U	<100 U	<42 U	<42 U	<42 U	<42 U	<42 U	<40 U	<10 U	<100 U	<5.0 U	
Methylecyclohexane	NSL	µg/L	36	16	6.1 J	29	34	21	21	33	28	17	13	<1.0 U	
Methylene Chloride	5	µg/L	<1.0 U	<5.0 U	<20 U	14 J	<8.8 U	21	<8.8 U	<8.8 U	<8.0 U	<2.0 U	<50 U	<1.0 U	
m,p-Xylene	NSL	µg/L	730	340	580	710	730	610	750	860	800	490	NA	<2.0 U	
Naphthalene	10	µg/L	NA	84	120	86	110	91	110	120	90	110	NA	<1.0 U	
n-Butylbenzene	5	µg/L	NA	68	73	47	97	58	62	95	75	46	NA	<1.0 U	
n-Propylbenzene	NSL	µg/L	NA	60	78	80	110	69	81	100	81	74	NA	<1.0 U	
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	450	390	370	410	420	330	460	530	510	370	NA	<1.0 U	
Sec-Butylbenzene	5	µg/L	NA	30	30	<15 U	47	36	34	46	35	34	NA	<1.0 U	
Styrene	5	µg/L	<1.0 U	<5.0 U	<20 U	<15 U	<15 U	<15 U	<15 U	16 J	<8.0 U	<2.0 U	<10 U	<1.0 U	
t-Butylbenzene	5	µg/L	NA	<5.0 U	<20 U	<16 U	<16 U	<16 U	<16 U	<16 U	<8.0 U	4.6	NA	<1.0 U	
Tert-Butyl Methyl Ether	10	µg/L	<1.0 U	<5.0 U	<20 U	<3.2 U	<3.2 U	<3.2 U	<3.2 U	<3.2 U	<8.0 U	<2.0 U	<10 U	<1.0 U	
Tetrachloroethylene (PCE)	5	µg/L	0.65 J	<5.0 U	<20 U	15 J	34	25	26	37	37	17	2.0 J	<1.0 U	
Toluene	5	µg/L	21	10	<20 U	<10 U	10 J	<10 U	<10 U	<10 U	6.8 J	7	7.6 J	<1.0 U	
Trans-1,2-Dichloroethene	5	µg/L	<1.0 U	<5.0 U	<20 U	<18 U	<18 U	<18 U	<18 U	<18 U	<8.0 U	<2.0 U	<10 U	<1.0 U	
Trans-1,3-Dichloropropene	0.4	µg/L	<1.0 U	<5.0 U	<20 U	<7.4 U	<7.4 U	<7.4 U	<7.4 U	<7.4 U	<8.0 U	<2.0 U	<5 U	<1.0 U	
Trichloroethylene (TCE)	5	µg/L	0.51 J	<5.0 U	<20 U	<9.2 U	<9.2 U	<9.2 U	<9.2 U	<9.2 U	<8.0 U	4.7	<10 U	<1.0 U	
Trichlorofluoromethane	5	µg/L	<1.0 U	<5.0 U	<20 U	<18 U	<18 U	<18 U	<18 U	<18 U	<8.0 U	<2.0 U	<10 U	<1.0 U	
Vinyl Acetate	NSL	µg/L	NA	<25 U	<100 U	<17 U	<17 U	<17 U	<17 U	<17 U	<40 U	NA	NA	<5.0 U	
Vinyl Chloride	2	µg/L	<1.0 U	<5.0 U	<20 U	<18 U	<18 U	<18 U	<18 U	<18 U	<8.0 U	<2.0 U	<20 U	<1.0 U	
Xylenes	5	µg/L	1200	550	950	1100	1200	940	1200	1400	1300	860	600	<2.0 U	
Pesticides (SW8081)															
Alachlor	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.18 U	NA	
Aldrin	NSL	µg/L	<2.4 U	<5.0 U	0.051 J	<0.0077 U	<0.0079 U	<0.0079 U	<0.0080 U	<0.0079 U	<0.081 U	<0.50 U	<0.020 U	<0.27 U	
Alpha Bhc (Alpha Hexachlorocyclohexane)	NSL	µg/L	<2.4 U	0.12 J	<0.23 U	0.093 J	<0.0073 U	0.086 J	0.17 J	0.14 J	<0.50 U	<0.020 U	<0.045 U	<0.27 U	
Alpha Endosulfan	NSL	µg/L	<2.4 U	<5.0 U	<0.23 U	<0.11 U	<0.010 U	<0.11 U	<0.11 U	<0.11 U	<0.50 U	<0.020 U	<0.045 U	<0.27 U	
Beta Bhc (Beta Hexachlorocyclohexane)	NSL	µg/L	<2.4 U	<0.50 U	<0.23 U	<0.24 U	<0.024 U	<0.25 U	<0.24 U	<0.25 U	<0.50 U	<0.020 U	<0.045 U	<0.27 U	
Beta Endosulfan	NSL	µg/L	<2.4 U	<5.0 U	<0.23 U	<0.12 U	<0.011 U	<0.12 U	<0.12 U	<0.12 U	<0.50 U	<0.020 U	<0.073 U	<0.27 U	
Chlordane	0.05	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.18 U	NA	
Chlordane (Technical)	NSL	µg/L	<2.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
cis-Chlordane	NSL	µg/L	<2.4 U	<5.0 U	<0.23 U	<0.14 U	<0.014 U	<0.15 U	<0.14 U	<0.15 U	<0.50 U	<0.020 U	NA	0.20 J	
Delta BHC (Delta Hexachlorocyclohexane)	NSL	µg/L	<2.4 U	0.14 J	0.12 J	0.14 J	0.019 J	<0.099 U	0.098 U	<0.10 U	<0.50 U	<0.020 U	<0.045 U	<0.27 U	
Dieldrin	0.004	µg/L	<2.4 U	<5.0 U	<0.23 U	<0.095 U	<0.0093 U	<0.097 U	<0.096 U	<0.098 U	<0.50 U	<0.020 U	<0.0018 U	<0.27 U	
Endosulfan Sulfate	NSL	µg/L	<2.4 U	<5.0 U	<0.23 U	<0.15 U	<0.015 U	<0.16 U	<0.15 U	<0.16 U	<0.50 U	<0.020 U	<0.073 U	<0.27 U	
Endrin	NSL	µg/L	<2.4 U	<5.0 U	<0.23 U	<0.13 U	<0.013 U	<0.14 U	<0.13 U	<0.14 U	<0.50 U	<0.020 U	<0.073 U	<0.27 U	
Endrin Aldehyde	5	µg/L	<2.4 U	<5.0 U	<0.23 U	<0.16 U	<0.016 U	<0.16 U	<0.16 U	<0.16 U	<0.50 U	<0.020 U	<0.073 U	<0.27 U	
Endrin Ketone	5	µg/L	<2.4 U	<5.0 U	<0.23 U	<0.12 U	<0.011 U	<0.12 U	<0.12 U	<0.12 U	<0.50 U	<0.020 U	<0.073 U	<0.27 U	
Gamma Bhc (Lindane)	NSL	µg/L	<2.4 U	<5.0 U	0.058 J	<0.078 U	<0.0076 U	<0.079 U	<0.078 U	<0.080 U	0.18 J	<0.020 U	<0.027 U	<0.27 U	
Heptachlor	0.04	µg/L	<2.4 U	<5.0 U	<0.23 U	<0.083 U	<0.0081 U	<0.084 U	<0.083 U	<0.085 U	<0.50 U	<0.020 U	<0.045 U	<0.27 U	
Heptachlor Epoxide	0.03	µg/L	<2.4 U	<5.0 U	<0.23 U	<0.072 U	<0.0071 U	<0.073 U	<0.072 U	<0.074 U	<0.50 U	<0.020 U	<0.045 U	<0.27 U	
Hexachlorobenzene	0.04	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.045 U	NA	
Methoxychlor	35	µg/L	<2.4 U	<5.0 U	<0.23 U	<0.14 U	<0.013 U	<0.14 U	<0.14 U	<0.14 U	<0.50 U	<0.020 U	<0.45 U	<0.27 U	
P,p'-DDD	0.3	µg/L	<2.4 U	<5.0 U	0.067 J	<0.0088 U	<0.0091 U	<0.090 U	<0.092 U	<0.090 U	<0.50 U	<0.020 U	<0.036 U	0.52	
P,p'-DDE	0.2	µg/L	<2.4 U	<5.0 U	<0.23 U	<0.11 U	<0.011 U	<0.11 U	<0.11 U	<0.12 U	<0.50 U	<0.020 U	<0.036 U	0.11 J	
P,p'-DDT	0.2	µg/L	<2.4 U	<5.0 U	<0.23 U	<0.11 U	<0.010 U	<0.11 U	<0.11 U	<0.11 U	<0.50 U	<0.020 U	<0.036 U	<0.27 U	
Toxaphene	0.06	µg/L	<24 U	<5.0 U	<2.3 U	<1.2 U	<0.11 U	<1.2 U	<1.2 U	<1.2 U	<5.0 U	<0.50 U	<0.91 U	<2.7 U	
trans-Chlordane	NSL	µg/L	NA	<5.0 U	<2.3 U	<0.11 U	<0.010 U	<0.11 U	<0.11 U	<0.11 U	<0.50 U	<0.020 U	NA	0.12 J	

Notes:

(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).

µg/L = Microgram(s) per liter

J = Concentration is estimated

J+ = Concentration is estimated, biased high

NA = Not analyzed

ng/L = Nanogram(s) per liter

NSL - No screening level available

U = Analyte not detected

Concentrations exceeding the screening level are shaded gray

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

		Location ID	ASW	ASW	ASW	ASW	ASW	ASW	ASW	ASW	ASW	ASW	ASW	GW-1
		Sample Date	1/10/2012	10/13/2015	12/8/2015	3/8/2016	5/31/2016	9/14/2016	12/6/2016	3/16/2017	6/14/2017	5/14/2019	5/23/2023	7/7/2014
		Parent Sample ID	ASW	ASW-20151013	ASW 120815-20151208	ASW 030816-20160308	ASW 053116	ASW 091416	ASW 12016	ASW 031617	ASW 061417	ASW 051419-20190514	ASW 518014-ASW	GW-11-20140707
Analyte	NYSDEC AWQS ¹	Unit												
SVOCs (SW8270)														
1,2,4,5-Tetrachlorobenzene	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 9.2 U	NA
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	NA	NA	NA	NA	< 0.20 U	NA	NA	0.46	NA
2,4,5-Trichlorophenol	NSL	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.50 U	< 4.6 U	< 2.3 U	< 24 U	< 2.4 U	< 25 U	< 10 U	< 9.2 U	< 18 U
2,4,6-Trichlorophenol	NSL	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.63 U	< 5.8 U	< 2.9 U	< 31 U	< 3.1 U	< 25 U	< 10 U	< 9.2 U	< 18 U
2,4-Dichlorophenol	5	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.53 U	< 4.9 U	< 2.4 U	< 26 U	< 2.6 U	< 25 U	< 10 U	< 9.2 U	< 7.1 U
2,4-Dimethylphenol	50	µg/L	1.5 J	2.7 J	8.6	10	8.9 J	< 2.4 U	< 25 U	5.6 J	4.7 J	1.8 J	1.4 J	< 7.1 U
2,4-Dinitrophenol	10	µg/L	< 9.4 U	< 9.7 U	< 9.2 U	< 2.3 U	< 21 U	< 11 U	< 110 U	< 11 U	< 50 U	< 20 U	< 18 UJ	< 140 U
2,4-Dinitrotoluene	5	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.46 U	< 4.3 U	< 2.1 U	< 23 U	< 2.2 U	< 25 U	< 2.0 U	< 9.2 U	< 18 U
2,6-Dinitrotoluene	5	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.41 U	< 3.8 U	< 1.9 U	< 20 U	< 2.0 U	< 25 U	< 2.0 U	< 9.2 U	< 18 U
2-Chloronaphthalene	10	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.47 U	< 4.4 U	< 2.2 U	< 23 U	< 2.3 U	< 25 U	< 10 U	< 9.2 U	< 3.6 U
2-Chlorophenol	1	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.55 U	< 5.1 U	< 2.5 U	< 27 U	< 2.7 U	< 25 U	< 10 U	< 9.2 U	< 3.6 U
2-Methylnaphthalene	NSL	µg/L	57	23	30	36	28 J	42	< 30 U	36	39	23	24	< 0.71 U
2-Methylphenol (O-Cresol)	NSL	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.41 U	< 3.8 U	< 1.9 U	< 20 U	< 2.0 U	< 25 U	< 10 U	< 9.2 U	< 3.6 U
2-Nitroaniline	5	µg/L	< 9.4 U	< 9.7 U	< 9.2 U	< 0.43 U	< 4.0 U	< 2.0 U	< 21 U	< 2.1 U	< 50 U	< 10 U	< 9.2 U	< 7.1 U
2-Nitrophenol	NSL	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.50 U	< 4.6 U	< 2.3 U	< 24 U	< 2.4 U	< 25 U	< 10 U	< 9.2 U	< 7.1 U
3- And 4- Methylphenol (Total)	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 9.2 U	NA
3,3'-Dichlorobenzidine	5	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.41 U	< 3.8 U	< 1.9 U	< 20 U	< 2.0 U	< 25 U	< 10 U	< 9.2 U	< 18 U
3-Nitroaniline	5	µg/L	< 9.4 U	< 9.7 U	< 9.2 U	< 0.50 U	< 4.6 U	< 2.3 U	< 24 U	< 2.4 U	< 50 U	< 10 U	< 9.2 UJ	< 7.1 U
4,6-Dinitro-2-Methylphenol	NSL	µg/L	< 9.4 U	< 9.7 U	< 9.2 U	< 2.3 U	< 21 U	< 10 U	< 110 U	< 11 U	< 50 U	< 20 U	< 18 UJ	< 18 U
4-Bromophenyl Phenyl Ether	NSL	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.46 U	< 4.3 U	< 2.1 U	< 23 U	< 2.3 U	< 25 U	< 10 U	< 9.2 U	< 7.1 U
4-Chloro-3-Methylphenol	NSL	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.46 U	< 4.3 U	< 2.1 U	< 23 U	< 2.3 U	< 25 U	< 10 U	< 9.2 U	< 7.1 U
4-Chloroaniline	5	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.61 U	< 5.6 U	< 2.8 U	< 30 U	< 3.0 U	< 25 U	< 10 U	< 9.2 U	< 7.1 U
4-Chlorophenyl Phenyl Ether	NSL	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.36 U	< 3.3 U	< 1.7 U	< 18 U	< 1.8 U	< 25 U	< 10 U	< 9.2 U	< 7.1 U
4-Methylphenol (P-Cresol)	NSL	µg/L	7.6 J	61	59	12	< 3.4 U	21 J	< 18 U	18 J	31 J	10	NA	NA
4-Nitroaniline	5	µg/L	< 9.4 U	< 9.7 U	< 9.2 U	< 0.26 U	< 2.4 U	< 1.2 U	< 13 U	< 1.3 U	< 50 U	< 10 U	< 9.2 UJ	< 7.1 U
4-Nitrophenol	NSL	µg/L	< 9.4 U	< 9.7 U	< 9.2 U	< 1.6 U	< 15 U	< 7.2 U	< 77 U	< 7.6 U	< 50 U	< 20 U	< 18 U	< 18 U
Acenaphthene	20	µg/L	0.44 J	< 4.8 U	< 4.6 U	< 0.42 U	< 3.9 U	< 1.9 U	< 21 U	< 2.1 U	< 25 U	< 10 U	< 4.6 U	< 0.71 U
Acenaphthylene	NSL	µg/L	0.76 J	< 4.8 U	< 4.6 U	< 0.39 U	< 3.6 U	< 1.8 U	< 19 U	< 1.9 U	< 25 U	< 10 U	< 4.6 U	< 0.71 U
Acetophenone	NSL	µg/L	130	< 4.8 U	98	170	< 5.2 U	< 2.6 U	< 27 U	< 2.7 U	130	< 10 U	< 9.2 U	2.6 J
Anthracene	50	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.29 U	< 2.7 U	< 1.3 U	< 14 U	< 1.4 U	< 25 U	< 10 U	< 4.6 U	< 0.71 U
Atrazine	NSL	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.47 U	< 4.4 U	< 2.2 U	< 23 U	< 2.3 U	< 25 U	< 2.0 U	< 18 U	< 3.6 U
Benzaldehyde	NSL	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.28 U	< 2.5 U	< 1.3 U	< 13 U	< 1.3 U	< 25 U	< 10 U	< 9.2 UJ	< 3.6 U
Benzo(A)Anthracene	0.002	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.37 U	< 3.4 U	< 1.7 U	< 18 U	< 1.8 U	< 25 U	< 1.0 U	< 4.6 U	< 0.71 U
Benzo(A)Pyrene	NSL	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.49 U	< 4.5 U	< 2.2 U	< 24 U	< 2.4 U	< 25 U	< 1.0 U	< 4.6 U	< 0.71 U
Benzo(B)Fluoranthene	0.002	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.35 U	< 3.2 U	< 1.6 U	< 17 U	< 1.7 U	< 25 U	< 2.0 U	< 4.6 U	< 0.71 U
Benzo(G,H,I)Perylene	NSL	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.36 U	< 3.3 U	< 1.7 U	< 18 U	< 1.8 U	< 25 U	< 10 U	< 4.6 U	< 0.71 U
Benzo(K)Fluoranthene	0.002	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.75 U	< 7.0 U	< 3.5 U	< 37 U	< 3.7 U	< 25 U	< 1.0 U	< 4.6 U	< 0.71 U
Benzyol Butyl Phthalate	50	µg/L	< 4.7 U	0.53 J	< 4.6 U	< 0.43 U	< 9.5 U	< 4.7 U	< 50 U	< 5.0 U	< 25 U	< 10 U	< 9.2 UJ	< 3.6 U
Biphenyl (Diphenyl or 1,1'-Biphenyl)	5	µg/L	3.9 J	1.7 J	2.2 J	2.5 J	< 6.2 U	< 3.1 U	< 33 U	< 3.3 U	< 25 U	1.6 J	1.6 J	< 3.6 U
Bis(2-Chloroethoxy) Methane	5	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.36 U	< 3.3 U	< 1.7 U	< 18 U	< 1.8 U	< 25 U	< 10 U	< 9.2 U	< 3.6 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.41 U	< 3.8 U	< 1.9 U	< 20 U	< 2.0 U	< 25 U	< 1.0 U	< 9.2 U	< 3.6 U
Bis(2-Chloroisopropyl) Ether	5	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.54 U	< 5.0 U	< 2.5 U	< 26 U	< 2.6 U	< 25 U	< 10 U	< 9.2 U	< 3.6 U
Bis(2-Ethylhexyl) Phthalate	5	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 1.9 U	< 21 U	< 10 U	< 110 U	< 11 U	< 25 U	< 2.0 U	< 9.2 UJ	100
Caprolactam	NSL	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 2.3 U	< 21 U	< 10 U	< 110 U	< 11 U	< 25 U	< 10 U	< 9.2 UJ	2.3 J
Carbazole	NSL	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.31 U	< 2.9 U	< 1.4 U	< 15 U	< 1.5 U	< 25 U	< 10 U	< 9.2 U	< 3.6 U
Chrysene	0.002	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.34 U	< 3.1 U	< 1.6 U	< 17 U	< 1.7 U	< 25 U	< 2.0 U	< 4.6 U	< 0.71 U
Dibenz(A,H)Anthracene	NSL	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.43 U	< 4.0 U	< 2.0 U	< 21 U	< 2.1 U	< 25 U	< 1.0 U	< 4.6 U	< 0.71 U
Dibenzofuran	NSL	µg/L	0.64 J	< 9.7 U	< 9.2 U	< 0.53 U	< 4.9 U	< 2.4 U	< 26 U	< 2.6 U	< 50 U	< 10 U	< 4.6 U	< 3.6 U
Diethyl Phthalate	50	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.23 U	< 2.1 U	< 1.0 U	< 11 U	< 1.1 U	< 25 U	< 10 U	< 9.2 U	0.64 J
Dimethyl Phthalate	50	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.37 U	< 3.4 U	< 1.7 U	< 18 U	< 1.8 U	< 25 U	< 10 U	< 9.2 U	< 3.6 U
Di-N-Butyl Phthalate	50	µg/L	1.8 J	1.7 J	2.2 J	2.5 J	< 3.0 U	3.0 J	< 16 U	3.0 J	3.4 J	1.7 J	< 9.2 U	3.2 J
Di-N-Octylphthalate	50	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.49 U	< 4.5 U	< 2.2 U	< 24 U	< 2.4 U	< 25 U	< 10 U	< 9.2 UJ	< 3.6 U
Fluoranthene	50	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.41 U	< 3.8 U	< 1.9 U	< 20 U	< 2.0 U	< 25 U	< 10 U	< 4.6 U	< 0.71 U
Fluorene	50	µg/L	0.74 J	0.46 J	0.48 J	0.59 J	< 3.4 U	< 1.7 U	< 18 U	< 1.8 U	< 25 U	< 10 U	0.74 J	< 0.71 U
Hexachlorobenzene	0.04	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.53 U	< 4.9 U	< 2.4 U	< 26 U	< 2.6 U	< 25 U	< 1.0 U	< 9.2 U	< 3.6 U
Hexachlorobutadiene	0.5	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.70 U	< 6.5 U	< 3.2 U	< 34 U	< 3.4 U	< 25 U	< 1.0 U	< 9.2 U	< 3.6 U
Hexachlorocyclopentadiene	5	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.61 U	< 5.6 U	< 2.8 U	< 30 U	< 3.0 U	< 25 U	< 10 U	< 9.2 U	< 3.6 U
Hexachloroethane	5	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.61 U	< 5.6 U	< 2.8 U	< 30 U	< 3.0 U	< 25 U	< 2.0 U	< 9.2 UJ	< 3.6 U
Indeno(1,2,3-C,D)Pyrene	0.002	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.49 U	< 4.5 U	< 2.2 U	< 24 U	< 2.4 U	< 25 U	< 2.0 U	< 4.6 U	< 0.71 U
Isophorone	50	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.44 U	< 4.1 U	< 2.0 U	< 22 U	< 2.2 U	< 25 U	< 10 U	< 9.2 U	< 3.6 U
Naphthalene	10	µg/L	89	46	68	82	65	90	60 J	89	89	63	61	< 0.71 U
Nitrobenzene	0.4	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.30 U	< 2.8 U	< 1.4 U	< 15 U	< 1.5 U	< 25 U	< 1.0 U	< 9.2 U	< 3.6 U
N-Nitrosodi-N-Propylamine	NSL	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.56 U	< 5.2 U	< 2.6 U	< 27 U	< 2.7 U	< 25 U	< 1.0 U	< 9.2 U	< 3.6 U
N-Nitrosodiphenylamine	50	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.53 U	< 4.9 U	< 2.4 U	< 26 U	< 2.6 U	< 25 U	< 10 U	< 9.2 U	< 3.6 U
Pentachlorophenol	1	µg/L	< 9.4 U	< 9.7 U	< 9.2 U	< 2.3 U	< 21 U	< 10 U	< 110 U	< 0.011 U	< 50 U	< 20 U	0.63 J	< 140 U
Phenanthrene	50	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.45 U	< 4.2 U	< 2.1 U	< 22 U	< 0.0022 U	< 25 U	< 10 U	< 4.6 U	< 0.71 U
Phenol	NSL	µg/L	< 4.7 U	< 4.8 U	0.48 J	< 0.40 U	< 3.7 U	< 1.9 U	< 20 U	< 2.0 U	< 25 U	< 10 U	< 9.2 U	0.72 J
Pyrene	50	µg/L	< 4.7 U	< 4.8 U	< 4.6 U	< 0.35 U	< 3.2 U	< 1.6 U	< 17 U	< 1.7 U	< 25 U	< 10 U	< 4.6 U	< 0.71 U

Notes:

(1) NYSDEC Ambient Water Quality Standard Class GA

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			GW-10 7/8/2014 GW-110-20140708	GW-11 7/8/2014 GW-111-20140708	GW-12 7/8/2014 GW-112-20140708	GW-13 7/8/2014 GW-113-20140708	GW-14 7/8/2014 GW-114-20140708	GW-15 7/8/2014 GW-115-20140708	GW-16 7/9/2014 GW-116-20140709	GW-17 7/9/2014 GW-117-20140709	GW-18 7/9/2014 GW-118-20140709	GW-19 7/9/2014 GW-119-20140709	GW-2 7/7/2014 GW-12-20140707	GW-20 7/9/2014 GW-120-20140709
Analyte	NYSDEC AWQS ¹	Unit												
PFAS (E537/E1633)														
11-Chloroicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nonafluoro-3,6-dioxiheptanoic acid (NFDHA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic Acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	6.7	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTriA/PFTriDA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs (SW8260)														
1,1,1,2-Tetrachloroethane	5	µg/L	< 10 U	< 20 U	< 50 U	< 40 U	< 20 U	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U
1,1,1-Trichloroethane (TCA)	5	µg/L	< 10 U	< 20 U	< 50 U	< 40 U	< 20 U	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U
1,1,2,2-Tetrachloroethane	5	µg/L	< 10 U	< 20 U	4.7 J	< 40 U	< 20 U	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 10 U	< 20 U	< 50 U	< 40 U	< 20 U	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U
1,1,2-Trichloroethane	1	µg/L	< 10 U	< 20 U	< 50 U	< 40 U	< 20 U	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U
1,1-Dichloroethane	5	µg/L	< 10 U	< 20 U	< 50 U	< 40 U	0.96 J	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U
1,1-Dichloroethene	5	µg/L	< 10 U	< 20 U	< 50 U	< 40 U	< 20 U	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U
1,1-Dichloropropene	5	µg/L	< 10 U	< 20 U	< 50 U	< 40 U	< 20 U	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U
1,2,3-Trichlorobenzene	5	µg/L	< 10 U	< 20 U	< 50 U	< 40 U	< 20 U	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U
1,2,3-Trichloropropane	0.04	µg/L	< 10 U	< 20 U	< 50 U	< 40 U	11	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U
1,2,4-Trichlorobenzene	5	µg/L	< 10 U	< 20 U	< 50 U	< 40 U	< 20 U	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U
1,2,4-Trimethylbenzene	NSL	µg/L	670	180	180	220	70	230	1.1	< 10 U	< 10 U	360	35	200
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 10 U	< 20 U	< 50 U	< 40 U	< 20 U	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U
1,2-Dibromoethane (Ethylene Dibromide)	NSL	µg/L	< 10 U	< 20 U	< 50 U	< 40 U	< 20 U	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U
1,2-Dichlorobenzene	3	µg/L	< 10 U	< 20 U	5.3	< 40 U	< 20 U	12	< 10 U	< 10 U	< 10 U	16	2.2	9.1
1,2-Dichloroethane	0.6	µg/L	< 10 U	< 20 U	< 50 U	< 40 U	< 20 U	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U
1,2-Dichloropropane	1	µg/L	< 10 U	< 20 U	< 50 U	< 40 U	< 20 U	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U
1,3,5-Trimethylbenzene (Mesitylene)	NSL	µg/L	290	53	110	54	35	73	< 10 U	< 10 U	< 10 U	110	16	35
1,3-Dichlorobenzene	3	µg/L	< 10 U	< 20 U	< 50 U	< 40 U	< 20 U	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U
1,3-Dichloropropane	5	µg/L	< 10 U	< 20 U	< 50 U	< 40 U	< 20 U	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U
1,4-Dichlorobenzene	3	µg/L	< 10 U	< 20 U	< 50 U	< 40 U	< 20 U	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	NSL	µg/L	< 10 U	< 20 U	< 50 U	< 40 U	< 20 U	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U
2-Chlorotoluene	NSL	µg/L	< 10 U	< 20 U	< 50 U	< 40 U	< 20 U	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U
2-Hexanone	50	µg/L	< 50 U	< 10 U	< 25 U	< 20 U	< 10 U	< 20 U	< 50 U	< 50 U	< 50 U	< 40 U	< 50 U	< 25 U
4-Chlorotoluene	NSL	µg/L	< 10 U	< 20 U	< 50 U	< 40 U	< 20 U	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U
Acetone	50	µg/L	< 100 U	9.1 J	16 J	21 J	52	12 J	16	11	4.9 J	< 80 U	27	20 J
Benzene	1	µg/L	< 10 U	< 20 U	< 50 U	< 40 U	< 20 U	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U
Bromobenzene	NSL	µg/L	< 10 U	< 20 U	< 50 U	< 40 U	< 20 U	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U
Bromochloromethane	5	µg/L	< 10 U	< 20 U	< 50 U	< 40 U	< 20 U	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U
Bromodichloromethane	50	µg/L	< 10 U	< 20 U	< 50 U	< 40 U	< 20 U	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U
Bromofom	50	µg/L	< 10 U	< 20 U	< 50 U	< 40 U	< 20 U	< 40 U	< 10 U	< 10 U	< 10 U	< 80 U	< 10 U	< 50 U

Notes:

(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).

µg/L = Microgram(s) per liter

J = Concentration is estimated

J+ = Concentration is estimated, biased high

NA = Not analyzed

ng/L = Nanogram(s) per liter

NSL = No screening level available

U = Analyte not detected

Concentrations exceeding the screening level are shaded gray

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			GW-10 7/8/2014 GW-110-20140708	GW-11 7/8/2014 GW-111-20140708	GW-12 7/8/2014 GW-112-20140708	GW-13 7/8/2014 GW-113-20140708	GW-14 7/8/2014 GW-114-20140708	GW-15 7/8/2014 GW-115-20140708	GW-16 7/9/2014 GW-116-20140709	GW-17 7/9/2014 GW-117-20140709	GW-18 7/9/2014 GW-118-20140709	GW-19 7/9/2014 GW-119-20140709	GW-2 7/7/2014 GW-12-20140707	GW-20 7/9/2014 GW-120-20140709
Analyte	NYSDEC AWQS ¹	Unit												
Bromomethane	5	µg/L	< 10 U	< 2.0 U	< 5.0 U	< 4.0 U	< 2.0 U	< 4.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 8.0 U	< 1.0 U	< 5.0 U
Carbon Disulfide	60	µg/L	< 10 U	< 2.0 U	1.5 J	< 4.0 U	< 2.0 U	< 4.0 U	< 1.0 U	< 1.0 U	1.6	< 8.0 U	1.1	< 5.0 U
Carbon Tetrachloride	5	µg/L	< 10 U	< 2.0 U	< 5.0 U	< 4.0 U	< 2.0 U	< 4.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 8.0 U	< 1.0 U	< 5.0 U
Chlorobenzene	5	µg/L	< 10 U	< 2.0 U	< 5.0 U	< 4.0 U	< 2.0 U	< 4.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 8.0 U	< 1.0 U	< 5.0 U
Chloroethane	5	µg/L	< 10 U	< 2.0 U	< 5.0 U	< 4.0 U	< 2.0 U	< 4.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 8.0 U	< 1.0 U	< 5.0 U
Chloroform	7	µg/L	< 10 U	0.69 J	< 5.0 U	< 4.0 U	< 2.0 U	< 4.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 8.0 U	< 1.0 U	< 5.0 U
Chloromethane (Methyl Chloride)	NSL	µg/L	< 10 U	< 2.0 U	< 5.0 U	< 4.0 U	< 2.0 U	< 4.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 8.0 U	< 1.0 U	< 5.0 U
Cis-1,2-Dichloroethylene	5	µg/L	< 10 U	< 2.0 U	8.2	< 4.0 U	39	< 4.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 8.0 U	< 1.0 U	17
Cis-1,3-Dichloropropene	0.4	µg/L	< 10 U	< 2.0 U	< 5.0 U	< 4.0 U	< 2.0 U	< 4.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 8.0 U	< 1.0 U	< 5.0 U
Cyclohexane	NSL	µg/L	< 10 U	2.4	< 5.0 U	3.6 J	< 2.0 U	3.2 J	< 1.0 U	< 1.0 U	< 1.0 U	7.0 J	< 1.0 U	4.3 J
Cymene	NSL	µg/L	50	16	35	21	15	24	0.31 J	< 1.0 U	< 1.0 U	32	14	8.2
Dibromochloromethane	50	µg/L	< 10 U	< 2.0 U	< 5.0 U	< 4.0 U	< 2.0 U	< 4.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 8.0 U	< 1.0 U	< 5.0 U
Dibromomethane	5	µg/L	< 10 U	< 2.0 U	< 5.0 U	< 4.0 U	< 2.0 U	< 4.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 8.0 U	< 1.0 U	< 5.0 U
Dichlorodifluoromethane	5	µg/L	< 10 U	< 2.0 U	< 5.0 U	< 4.0 U	< 2.0 U	< 4.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 8.0 U	< 1.0 U	< 5.0 U
Ethylbenzene	5	µg/L	63	17	8.2	82	22	33	< 1.0 U	< 1.0 U	< 1.0 U	53	0.87 J	63
Hexachlorobutadiene	0.5	µg/L	< 10 U	< 2.0 U	< 5.0 U	< 4.0 U	< 2.0 U	< 4.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 8.0 U	< 1.0 U	< 5.0 U
Iodomethane (Methyl Iodide)	NSL	µg/L	< 10 U	< 2.0 U	< 5.0 U	< 4.0 U	< 2.0 U	< 4.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 8.0 U	< 1.0 U	< 5.0 U
Isopropylbenzene (Cumene)	5	µg/L	35	11	6.8	13	3.8	14	< 1.0 U	< 1.0 U	< 1.0 U	24	1.8	17
Methyl Acetate	NSL	µg/L	< 25 U	< 5.0 U	< 13 U	< 10 U	< 5.0 U	< 10 U	< 2.5 U	< 2.5 U	< 2.5 U	< 20 U	< 2.5 U	< 13 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	< 100 U	2.8 J	< 50 U	10 J	20	5.5 J	1.4 J	1.4 J	< 10 U	< 80 U	5.2 J	< 50 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 50 U	< 10 U	< 25 U	< 20 U	< 10 U	< 20 U	< 5.0 U	< 5.0 U	< 5.0 U	< 40 U	< 5.0 U	< 25 U
Methylcyclohexane	NSL	µg/L	13	5.8	5	10	3.1	6.1	0.78 J	< 1.0 U	< 1.0 U	15	2.8	7.7
Methylene Chloride	5	µg/L	< 10 U	< 2.0 U	< 5.0 U	< 4.0 U	< 2.0 U	< 4.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 8.0 U	< 1.0 U	< 5.0 U
M-P-Xylene	NSL	µg/L	180	58	24	260	85	92	0.86 J	1.0 J	< 2.0 U	170	4.1	110
Naphthalene	10	µg/L	190	160	22	67	22	42	0.56 J	0.43 J	< 1.0 U	44	4.3	22
N-Butylbenzene	5	µg/L	110	25	59	27	23	30	< 1.0 U	< 1.0 U	< 1.0 U	62	22	27
N-Propylbenzene	NSL	µg/L	92	23	20	20	7.2	25	< 1.0 U	< 1.0 U	< 1.0 U	46	3.8	30
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	150	34	35	180	95	55	0.76 J	1	< 1.0 U	100	3.7	120
Sec-Butylbenzene	5	µg/L	36	12	25	15	7.6	18	< 1.0 U	< 1.0 U	< 1.0 U	31	< 1.0 U	18
Styrene	5	µg/L	< 10 U	< 2.0 U	< 5.0 U	< 4.0 U	< 2.0 U	< 4.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 8.0 U	< 1.0 U	< 5.0 U
T-Butylbenzene	5	µg/L	< 10 U	1.6 J	< 5.0 U	< 4.0 U	< 2.0 U	< 4.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 8.0 U	< 1.0 U	< 5.0 U
Tert-Butyl Methyl Ether	10	µg/L	< 10 U	< 2.0 U	< 5.0 U	< 4.0 U	< 2.0 U	< 4.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 8.0 U	< 1.0 U	< 5.0 U
Tetrachloroethylene (PCE)	5	µg/L	7.6 J	1.8 J	< 5.0 U	8.5	< 2.0 U	3.6 J	0.69 J	0.85 J	< 8.0 U	< 8.0 U	1.2	< 5.0 U
Toluene	5	µg/L	< 10 U	< 2.0 U	< 5.0 U	2.8 J	11	< 4.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 8.0 U	< 1.0 U	4.2 J
Trans-1,2-Dichloroethene	5	µg/L	< 10 U	< 2.0 U	< 5.0 U	< 4.0 U	< 2.0 U	< 4.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 8.0 U	< 1.0 U	< 5.0 U
Trans-1,3-Dichloropropene	0.4	µg/L	< 10 U	< 2.0 U	< 5.0 U	< 4.0 U	< 2.0 U	< 4.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 8.0 U	< 1.0 U	< 5.0 U
Trichloroethylene (TCE)	5	µg/L	< 10 U	5.7	< 5.0 U	8.3	2.3	< 4.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 8.0 U	< 1.0 U	< 5.0 U
Trichlorofluoromethane	5	µg/L	< 10 U	< 2.0 U	< 5.0 U	< 4.0 U	< 2.0 U	< 4.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 8.0 U	< 1.0 U	< 5.0 U
Vinyl Acetate	NSL	µg/L	< 50 U	< 10 U	< 25 U	< 20 U	< 10 U	< 20 U	< 5.0 U	< 5.0 U	< 5.0 U	< 40 U	< 5.0 U	< 25 U
Vinyl Chloride	2	µg/L	< 10 U	< 2.0 U	< 5.0 U	< 4.0 U	< 2.0 U	< 4.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 8.0 U	< 1.0 U	< 5.0 U
Xylenes	5	µg/L	330	92	59	440	180	150	1.6 J	2	< 2.0 U	270	7.8	230
Pesticides (SW8081)														
Alachlor	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	NSL	µg/L	< 0.94 U	0.10 J	0.043 J	0.036 J	0.18 J	< 0.24 U	< 0.047 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.54 U	< 0.46 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	NSL	µg/L	0.23 J	0.096 J	< 0.049 U	< 0.048 U	< 0.23 U	< 0.24 U	0.011 J	0.0089 J	0.0080 J	< 0.047 U	< 0.54 U	< 0.46 U
Alpha Endosulfan	NSL	µg/L	< 0.94 U	< 0.24 U	< 0.049 U	< 0.048 U	< 0.23 U	< 0.24 U	0.032 J	< 0.047 U	< 0.046 U	< 0.047 U	< 0.54 U	< 0.46 U
Beta Bhc (Beta Hexachlorocyclohexane)	NSL	µg/L	< 0.94 U	< 0.24 U	< 0.049 U	0.066	0.13 J	< 0.24 U	< 0.047 U	< 0.047 U	< 0.046 U	0.041 J	< 0.54 U	< 0.46 U
Beta Endosulfan	NSL	µg/L	< 0.94 U	0.095 J	< 0.049 U	< 0.048 U	< 0.23 U	< 0.24 U	< 0.047 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.54 U	< 0.46 U
Chlordane	0.05	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlordane (Technical)	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-Chlordane	NSL	µg/L	6.2	1.7	0.016 J	0.12	< 0.23 U	< 0.24 U	0.018 J	< 0.047 U	< 0.046 U	0.014 J	1.6	< 0.46 U
Delta BHC (Delta Hexachlorocyclohexane)	NSL	µg/L	< 0.94 U	< 0.24 U	< 0.049 U	0.13	0.060 J	< 0.24 U	< 0.047 U	< 0.047 U	< 0.046 U	0.011 J	< 0.54 U	< 0.46 U
Dieldrin	0.004	µg/L	< 0.94 U	0.18 J	< 0.049 U	0.026 J	0.059 J	< 0.24 U	0.027 J	< 0.047 U	< 0.046 U	< 0.047 U	< 0.54 U	< 0.46 U
Endosulfan Sulfate	NSL	µg/L	< 0.94 U	0.14 J	< 0.049 U	< 0.048 U	< 0.23 U	< 0.24 U	0.072	< 0.047 U	< 0.046 U	0.028 J	< 0.54 U	< 0.46 U
Endrin	NSL	µg/L	< 0.94 U	< 0.24 U	< 0.049 U	< 0.048 U	< 0.23 U	< 0.24 U	0.023 J	< 0.047 U	< 0.046 U	< 0.047 U	< 0.54 U	< 0.46 U
Endrin Aldehyde	5	µg/L	< 0.94 U	< 0.24 U	< 0.049 U	< 0.048 U	0.083 J	< 0.24 U	0.058	< 0.047 U	< 0.046 U	< 0.047 U	< 0.54 U	< 0.46 U
Endrin Ketone	5	µg/L	< 0.94 U	< 0.24 U	< 0.049 U	0.025 J	< 0.23 U	< 0.24 U	< 0.047 U	< 0.047 U	< 0.046 U	0.027 J	< 0.54 U	< 0.46 U
Gamma Bhc (Lindane)	NSL	µg/L	< 0.94 U	< 0.24 U	< 0.049 U	0.015 J	0.072 J	< 0.24 U	< 0.047 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.54 U	< 0.46 U
Heptachlor	0.04	µg/L	< 0.94 U	< 0.24 U	< 0.049 U	< 0.048 U	< 0.23 U	< 0.24 U	< 0.047 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.54 U	< 0.46 U
Heptachlor Epoxide	0.03	µg/L	0.45 J	0.98	< 0.049 U	< 0.048 U	< 0.23 U	< 0.24 U	< 0.047 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.54 U	< 0.46 U
Hexachlorobenzene	0.04	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	35	µg/L	< 0.94 U	< 0.24 U	< 0.049 U	0.15	< 0.23 U	< 0.24 U	< 0.047 U	< 0.047 U	< 0.046 U	< 0.047 U	< 0.54 U	< 0.46 U
P,P'-DDD	0.3	µg/L	0.41 J	< 0.24 U	0.036 J	0.042 J	0.092 J	0.42	0.19	0.76	0.11	0.27	0.14 J	0.21 J
P,P'-DDE	0.2	µg/L	0.50 J	0.24	< 0.049 U	0.043 J	0.057 J	0.16 J	0.062	0.14	0.026 J	0.067	0.13 J	< 0.46 U
P,P'-DDT	0.2	µg/L	< 0.94 U	< 0.24 U	0.013 J	< 0.048 U	0.10 J	< 0.24 U	< 0.047 U	0.015 J	< 0.046 U	0.035 J	< 0.54 U	< 0.46 U
Toxaphene	0.06	µg/L	< 9.4 U	< 2.4 U	< 0.49 U	< 0.48 U	< 2.3 U	< 2.4 U	< 0.47 U	< 0.47 U	< 0.46 U	< 0.47 U	< 5.4 U	< 4.6 U
trans-Chlordane	NSL	µg/L	3.1	1.4	< 0.049 U	0.051	< 0.23 U	< 0.24 U	0.034 J	0.021 J	0.018 J	0.020 J	0.72	< 0.46 U

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).
µg/L = Microgram(s) per liter
J = Concentration is estimated
J+ = Concentration is estimated, biased high
NA = Not analyzed
ng/L = Nanogram(s) per liter
NSL = No screening level available
U = Analyte not detected
Concentrations exceeding the screening level are shaded gray

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			GW-10 7/8/2014 GW-110-20140708	GW-11 7/8/2014 GW-111-20140708	GW-12 7/8/2014 GW-112-20140708	GW-13 7/8/2014 GW-113-20140708	GW-14 7/8/2014 GW-114-20140708	GW-15 7/8/2014 GW-115-20140708	GW-16 7/9/2014 GW-116-20140709	GW-17 7/9/2014 GW-117-20140709	GW-18 7/9/2014 GW-118-20140709	GW-19 7/9/2014 GW-119-20140709	GW-2 7/7/2014 GW-12-20140707	GW-20 7/9/2014 GW-120-20140709
Analyte	NYSDEC AWQS ¹	Unit												
SVOCs (SW8270)														
1,2,4,5-Tetrachlorobenzene	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NSL	µg/L	<5.1 U	<9.6 U	<4.7 U	<4.6 U	<89 U	<4.6 U	<19 U	<4.7 U	<4.7 U	<4.5 U	<45 U	<9.6 U
2,4,6-Trichlorophenol	NSL	µg/L	<5.1 U	<9.6 U	<4.7 U	<4.6 U	<89 U	<4.6 U	<19 U	<4.7 U	<4.7 U	<4.5 U	<45 U	<9.6 U
2,4-Dichlorophenol	5	µg/L	<2.0 U	<3.8 U	<1.9 U	<1.9 U	<36 U	<1.9 U	<7.5 U	<1.9 U	<1.9 U	<1.8 U	<18 U	<3.8 U
2,4-Dimethylphenol	50	µg/L	<2.0 U	<3.8 U	<1.9 U	<1.9 U	30 J	<1.9 U	<7.5 U	<1.9 U	<1.9 U	<1.8 U	<18 U	7
2,4-Dinitrophenol	10	µg/L	<41 U	<77 U	<38 U	<37 U	<710 U	<37 U	<150 U	<38 U	<38 U	<36 U	<360 U	<77 U
2,4-Dinitrotoluene	5	µg/L	<5.1 U	<9.6 U	<4.7 U	<4.6 U	<89 U	<4.6 U	<19 U	<4.7 U	<4.7 U	<4.5 U	<45 U	<9.6 U
2,6-Dinitrotoluene	5	µg/L	<5.1 U	<9.6 U	<4.7 U	<4.6 U	<89 U	<4.6 U	<19 U	<4.7 U	<4.7 U	<4.5 U	<45 U	<9.6 U
2-Chloronaphthalene	10	µg/L	<1.0 U	<1.9 U	<0.94 U	<0.93 U	<18 U	<0.93 U	<3.8 U	<0.94 U	<0.94 U	<0.89 U	<8.9 U	<1.9 U
2-Chlorophenol	1	µg/L	<1.0 U	<1.9 U	<0.94 U	<0.93 U	<18 U	<0.93 U	<3.8 U	<0.94 U	<0.94 U	<0.89 U	<8.9 U	<1.9 U
2-Methylnaphthalene	NSL	µg/L	7.1	2.9	1.3	9	<3.6 U	3.2	<0.75 U	<0.19 U	<0.19 U	14	<1.8 U	1
2-Methylphenol (O-Cresol)	NSL	µg/L	<1.0 U	<1.9 U	<0.94 U	<0.93 U	<18 U	<0.93 U	<3.8 U	<0.94 U	<0.94 U	<0.89 U	<8.9 U	1.2 J
2-Nitroaniline	5	µg/L	<2.0 U	<3.8 U	<1.9 U	<1.9 U	<36 U	<1.9 U	<7.5 U	<1.9 U	<1.9 U	<1.8 U	<18 U	<3.8 U
2-Nitrophenol	NSL	µg/L	<2.0 U	<3.8 U	<1.9 U	<1.9 U	<36 U	<1.9 U	<7.5 U	<1.9 U	<1.9 U	<1.8 U	<18 U	<3.8 U
3- And 4- Methylphenol (Total)	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	5	µg/L	<5.1 U	<9.6 U	<4.7 U	<4.6 U	<89 U	<4.6 U	<19 U	<4.7 U	<4.7 U	<4.5 U	<45 U	<9.6 U
3-Nitroaniline	5	µg/L	<2.0 U	<3.8 U	<1.9 U	<1.9 U	<36 U	<1.9 U	<7.5 U	<1.9 U	<1.9 U	<1.8 U	<18 U	<3.8 U
4,6-Dinitro-2-Methylphenol	NSL	µg/L	<5.1 U	<9.6 U	<4.7 U	<4.6 U	<89 U	<4.6 U	<19 U	<4.7 U	<4.7 U	<4.5 U	<45 U	<9.6 U
4-Bromophenyl Phenyl Ether	NSL	µg/L	<2.0 U	<3.8 U	<1.9 U	<1.9 U	<36 U	<1.9 U	<7.5 U	<1.9 U	<1.9 U	<1.8 U	<18 U	<3.8 U
4-Chloro-3-Methylphenol	NSL	µg/L	<2.0 U	<3.8 U	<1.9 U	<1.9 U	<36 U	<1.9 U	<7.5 U	<1.9 U	<1.9 U	<1.8 U	<18 U	<3.8 U
4-Chloroaniline	5	µg/L	<2.0 U	<3.8 U	<1.9 U	<1.9 U	<36 U	<1.9 U	<7.5 U	<1.9 U	<1.9 U	<1.8 U	<18 U	<3.8 U
4-Chlorophenyl Phenyl Ether	NSL	µg/L	<2.0 U	<3.8 U	<1.9 U	<1.9 U	<36 U	<1.9 U	<7.5 U	<1.9 U	<1.9 U	<1.8 U	<18 U	<3.8 U
4-Methylphenol (P-Cresol)	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	5	µg/L	<2.0 U	<3.8 U	<1.9 U	<1.9 U	<36 U	<1.9 U	<7.5 U	<1.9 U	<1.9 U	<1.8 U	<18 U	<3.8 U
4-Nitrophenol	NSL	µg/L	<5.1 U	<9.6 U	<4.7 U	<4.6 U	<89 U	<4.6 U	<19 U	<4.7 U	<4.7 U	<4.5 U	<45 U	<9.6 U
Acenaphthene	20	µg/L	<0.20 U	<0.38 U	<0.19 U	<0.19 U	<3.6 U	<0.19 U	<0.75 U	<0.19 U	<0.19 U	<0.18 U	<1.8 U	<0.38 U
Acenaphthylene	NSL	µg/L	<0.20 U	<0.38 U	<0.19 U	<0.19 U	<3.6 U	<0.19 U	<0.75 U	<0.19 U	<0.19 U	<0.18 U	<1.8 U	<0.38 U
Acetophenone	NSL	µg/L	<1.0 U	<1.9 U	<0.94 U	<0.93 U	<18 U	<0.93 U	2.7 J	2.1	2	<0.89 U	<8.9 U	62
Anthracene	50	µg/L	<0.20 U	<0.38 U	<0.19 U	<0.19 U	<3.6 U	<0.19 U	<0.75 U	<0.19 U	<0.19 U	<0.18 U	<1.8 U	<0.38 U
Atrazine	NSL	µg/L	<1.0 U	<1.9 U	<0.94 U	<0.93 U	<18 U	<0.93 U	<3.8 U	<0.94 U	<0.94 U	<0.89 U	<8.9 U	<1.9 U
Benzaldehyde	NSL	µg/L	<1.0 U	<1.9 U	<0.94 U	<0.93 U	9.1 J	<0.93 U	<3.8 U	<0.94 U	<0.94 U	<0.89 U	<8.9 U	<1.9 U
Benzo(A)Anthracene	0.002	µg/L	<0.20 U	<0.38 U	<0.19 U	<0.19 U	2.1 J	<0.19 U	<0.75 U	<0.19 U	<0.19 U	<0.18 U	<1.8 U	<0.38 U
Benzo(A)Pyrene	NSL	µg/L	<0.20 U	<0.38 U	<0.19 U	<0.19 U	<3.6 U	<0.19 U	<0.75 U	<0.19 U	<0.19 U	<0.18 U	<1.8 U	<0.38 U
Benzo(B)Fluoranthene	0.002	µg/L	<0.20 U	0.30 J	<0.19 U	<0.19 U	<3.6 U	<0.19 U	<0.75 U	<0.19 U	<0.19 U	<0.18 U	<1.8 U	<0.38 U
Benzo(G,H,I)Perylene	NSL	µg/L	<0.20 U	0.37 J	<0.19 U	<0.19 U	<3.6 U	<0.19 U	<0.75 U	<0.19 U	<0.19 U	<0.18 U	<1.8 U	<0.38 U
Benzo(K)Fluoranthene	0.002	µg/L	<0.20 U	0.34 J	<0.19 U	<0.19 U	<3.6 U	<0.19 U	<0.75 U	<0.19 U	<0.19 U	<0.18 U	<1.8 U	<0.38 U
Benzyl Butyl Phthalate	50	µg/L	0.51 J	0.69 J	<0.94 U	<0.93 U	<18 U	<0.93 U	<3.8 U	<0.94 U	<0.94 U	0.27 J	0.33 J	<1.9 U
Biphenyl (Diphenyl or 1,1'-Biphenyl)	5	µg/L	<1.0 U	<1.9 U	<0.94 U	<0.93 U	<18 U	<0.93 U	<3.8 U	<0.94 U	<0.94 U	<0.89 U	<8.9 U	<1.9 U
Bis(2-Chloroethoxy) Methane	5	µg/L	<1.0 U	<1.9 U	<0.94 U	<0.93 U	<18 U	<0.93 U	<3.8 U	<0.94 U	<0.94 U	<0.89 U	<8.9 U	<1.9 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	µg/L	<1.0 U	<1.9 U	<0.94 U	<0.93 U	<18 U	<0.93 U	<3.8 U	<0.94 U	<0.94 U	<0.89 U	<8.9 U	<1.9 U
Bis(2-Chloroisopropyl) Ether	5	µg/L	<1.0 U	<1.9 U	<0.94 U	<0.93 U	<18 U	<0.93 U	<3.8 U	<0.94 U	<0.94 U	<0.89 U	<8.9 U	<1.9 U
Bis(2-Ethylhexyl) Phthalate	5	µg/L	6.3	81	12	5.6	34 J	25	90	27	32	36	410	30
Caprolactam	NSL	µg/L	<5.1 U	2.5 J	<4.7 U	<4.6 U	<89 U	<4.6 U	1.6 J	1.3 J	<4.7 U	<4.5 U	7.0 J	<9.6 U
Carbazole	NSL	µg/L	<1.0 U	<1.9 U	<0.94 U	<0.93 U	<18 U	<0.93 U	<3.8 U	<0.94 U	<0.94 U	<0.89 U	<8.9 U	<1.9 U
Chrysene	0.002	µg/L	<0.20 U	0.32 J	<0.19 U	<0.19 U	1.9 J	<0.19 U	<0.75 U	<0.19 U	<0.19 U	<0.18 U	<1.8 U	<0.38 U
Dibenz(A,H)Anthracene	NSL	µg/L	<0.20 U	<0.38 U	<0.19 U	<0.19 U	<3.6 U	<0.19 U	<0.75 U	<0.19 U	<0.19 U	<0.18 U	<1.8 U	<0.38 U
Dibenzofuran	NSL	µg/L	<1.0 U	<1.9 U	<0.94 U	<0.93 U	<18 U	<0.93 U	<3.8 U	<0.94 U	<0.94 U	<0.89 U	<8.9 U	<1.9 U
Diethyl Phthalate	50	µg/L	<1.0 U	<1.9 U	<0.94 U	<0.93 U	<18 U	<0.93 U	<3.8 U	<0.94 U	<0.94 U	0.39 J	<0.89 U	<1.9 U
Dimethyl Phthalate	50	µg/L	<1.0 U	<1.9 U	<0.94 U	<0.93 U	<18 U	<0.93 U	<3.8 U	<0.94 U	<0.94 U	<0.89 U	<8.9 U	<1.9 U
Di-N-Butyl Phthalate	50	µg/L	9.2	4.3	12	4.3	93	5.1	4.9	3.3	3	4.8	6.1 J	3.9
Di-N-Octylphthalate	50	µg/L	<1.0 U	<1.9 U	<0.94 U	<0.93 U	<18 U	<0.93 U	<3.8 U	<0.94 U	<0.94 U	<0.89 U	<8.9 U	<1.9 U
Fluoranthene	50	µg/L	<0.20 U	<0.38 U	<0.19 U	<0.19 U	<3.6 U	0.19	<0.75 U	<0.19 U	<0.19 U	<0.18 U	<1.8 U	<0.38 U
Fluorene	50	µg/L	<0.20 U	<0.38 U	<0.19 U	<0.19 U	<3.6 U	<0.19 U	<0.75 U	<0.19 U	<0.19 U	<0.18 U	<1.8 U	<0.38 U
Hexachlorobenzene	0.04	µg/L	<1.0 U	<1.9 U	<0.94 U	<0.93 U	<18 U	<0.93 U	<3.8 U	<0.94 U	<0.94 U	<0.89 U	<8.9 U	<1.9 U
Hexachlorobutadiene	0.5	µg/L	<1.0 U	<1.9 U	<0.94 U	<0.93 U	<18 U	<0.93 U	<3.8 U	<0.94 U	<0.94 U	<0.89 U	<8.9 U	<1.9 U
Hexachlorocyclopentadiene	5	µg/L	<10 U	<19 U	<9.4 U	<9.3 U	<180 U	<9.3 U	<38 U	<9.4 U	<9.4 U	<8.9 U	<89 U	<19 U
Hexachloroethane	5	µg/L	<1.0 U	<1.9 U	<0.94 U	<0.93 U	<18 U	<0.93 U	<3.8 U	<0.94 U	<0.94 U	<0.89 U	<8.9 U	<1.9 U
Indeno(1,2,3-C,D)Pyrene	0.002	µg/L	<0.20 U	<0.38 U	<0.19 U	<0.19 U	<3.6 U	<0.19 U	<0.75 U	<0.19 U	<0.19 U	<0.18 U	<1.8 U	<0.38 U
Isophorone	50	µg/L	<1.0 U	<1.9 U	<0.94 U	<0.93 U	<18 U							

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			GW-21 7/9/2014 GW-121-20140709	GW-22 7/9/2014 GW-122-20140709	GW-23 7/9/2014 GW-123-20140709	GW-24 8/3/2015 GW-24-20150803	GW-25 8/3/2015 GW-25-20150803	GW-26 8/3/2015 GW-26-20150803	GW-27 8/3/2015 GW-27-20150803	GW-28 8/3/2015 GW-28-20150803	GW-29 8/4/2015 GW-29-20150804	GW-3 7/7/2014 GW-13-20140707	GW-30 8/4/2015 GW-30-20150804	GW-31 8/4/2015 GW-31-20150804
Analyte	NYSDEC AWQS ¹	Unit												
PFAS (E537/E1633)														
11-Chloroicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic Acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	6.7	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTriA/PFTTrDA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs (SW8260)														
1,1,1,2-Tetrachloroethane	5	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<1.0 U	<10 U	<5.0 U
1,1,1-Trichloroethane (TCA)	5	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<1.0 U	<10 U	<5.0 U
1,1,2,2-Tetrachloroethane	5	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<1.0 U	<10 U	<5.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<1.0 U	<10 U	<5.0 U
1,1,2-Trichloroethane	1	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<1.0 U	<10 U	<5.0 U
1,1-Dichloroethane	5	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<1.0 U	<10 U	<5.0 U
1,1-Dichloroethene	5	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<1.0 U	<10 U	<5.0 U
1,1-Dichloropropene	5	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<1.0 U	<10 U	<5.0 U
1,2,3-Trichlorobenzene	5	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	1.3	<10 U	<5.0 U
1,2,3-Trichloropropane	0.04	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<1.0 U	<10 U	<5.0 U
1,2,4-Trichlorobenzene	5	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	4.3	<10 U	<5.0 U
1,2,4-Trimethylbenzene	NSL	µg/L	5.5	1.1	<1.0 U	<5.0 U	5.4	110	55	59	250	33	450	130
1,2-Dibromo-3-Chloropropane	0.04	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<1.0 U	<10 U	<5.0 U
1,2-Dibromoethane (Ethylene Dibromide)	NSL	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<1.0 U	<10 U	<5.0 U
1,2-Dichlorobenzene	3	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	10	<5.0 U	<10 U	<10 U	18	<1.0 U	20	11
1,2-Dichloroethane	0.6	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<1.0 U	<10 U	<5.0 U
1,2-Dichloropropane	1	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<1.0 U	<10 U	<5.0 U
1,3,5-Trimethylbenzene (Mesitylene)	NSL	µg/L	0.92 J	<1.0 U	<1.0 U	<5.0 U	<5.0 U	34	<10 U	<10 U	62	21	97	25
1,3-Dichlorobenzene	3	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<1.0 U	<10 U	<5.0 U
1,3-Dichloropropane	5	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<1.0 U	<10 U	<5.0 U
1,4-Dichlorobenzene	3	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<1.0 U	<10 U	<5.0 U
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	NSL	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<1.0 U	<10 U	<5.0 U
2-Chlorotoluene	NSL	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<1.0 U	<10 U	<5.0 U
2-Hexanone	50	µg/L	<5.0 U	<5.0 U	<5.0 U	<25 U	<25 U	<25 U	<50 U	<50 U	<50 U	<5.0 U	<50 U	<25 U
4-Chlorotoluene	NSL	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<1.0 U	<10 U	<5.0 U
Acetone	50	µg/L	9.6 J	4.5 J	12	<50 U	<50 U	<50 U	<100 U	<100 U	<100 U	11	<100 U	<50 U
Benzene	1	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<1.0 U	<10 U	<5.0 U
Bromobenzene	NSL	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<1.0 U	<10 U	<5.0 U
Bromochloromethane	5	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<1.0 U	<10 U	<5.0 U
Bromodichloromethane	50	µg/L	<1.0 U	0.99 J	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<1.0 U	<10 U	<5.0 U
Bromofom	50	µg/L	<1.0 U	<1.0 U	<1.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U	<10 U	<10 U	<1.0 U	<10 U	<5.0 U

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).
µg/L = Microgram(s) per liter
J = Concentration is estimated
J+ = Concentration is estimated, biased high
NA = Not analyzed
ng/L = Nanogram(s) per liter
NSL = No screening level available
U = Analyte not detected
Concentrations exceeding the screening level are shaded gray

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

		Location ID	GW-21	GW-22	GW-23	GW-24	GW-25	GW-26	GW-27	GW-28	GW-29	GW-3	GW-30	GW-31
		Sample Date	7/9/2014	7/9/2014	7/9/2014	8/3/2015	8/3/2015	8/3/2015	8/3/2015	8/3/2015	8/4/2015	7/7/2014	8/4/2015	8/4/2015
		Sample Name	GW-121-20140709	GW-122-20140709	GW-123-20140709	GW-24-20150803	GW-25-20150803	GW-26-20150803	GW-27-20150803	GW-28-20150803	GW-29-20150804	GW-13-20140707	GW-30-20150804	GW-31-20150804
		Parent Sample ID												
Analyte	NYSDEC AWQS ¹	Unit												
Bromomethane	5	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 10 U	< 5.0 U
Carbon Disulfide	60	µg/L	3.3	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	1.3	< 10 U	< 5.0 U
Carbon Tetrachloride	5	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 10 U	< 5.0 U
Chlorobenzene	5	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 10 U	< 5.0 U
Chloroethane	5	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 10 U	< 5.0 U
Chloroform	7	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 10 U	< 5.0 U
Chloromethane (Methyl Chloride)	NSL	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 10 U	< 5.0 U
Cis-1,2-Dichloroethylene	5	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	14	< 1.0 U	19	9.5
Cis-1,3-Dichloropropene	0.4	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 10 U	< 5.0 U
Cyclohexane	NSL	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 1.0 U	3.4 J	1.9 J
Cymene	NSL	µg/L	0.35 J	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	19	< 10 U	< 10 U	12	47	16	4.6 J
Dibromochloromethane	50	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 10 U	< 5.0 U
Dibromomethane	5	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 10 U	< 5.0 U
Dichlorodifluoromethane	5	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 10 U	< 5.0 U
Ethylbenzene	5	µg/L	2.9	2.7	1.1	< 5.0 U	< 5.0 U	4.4 J	13	9.0 J	67	< 1.0 U	110	42
Hexachlorobutadiene	0.5	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 10 U	< 5.0 U
Iodomethane (Methyl Iodide)	NSL	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 10 U	< 5.0 U
Isopropylbenzene (Cumene)	5	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	6.7	< 10 U	< 10 U	21	1.4	39	20
Methyl Acetate	NSL	µg/L	< 2.5 U	< 2.5 U	< 2.5 U	< 13 U	< 13 U	< 13 U	< 25 U	< 25 U	< 25 U	< 2.5 U	< 25 U	< 13 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	< 10 U	< 10 U	< 10 U	< 50 U	< 50 U	< 50 U	< 100 U	< 100 U	< 100 U	2.5 J	< 100 U	< 50 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 25 U	< 25 U	< 25 U	< 50 U	< 50 U	< 50 U	< 5.0 U	< 50 U	< 25 U
Methylcyclohexane	NSL	µg/L	0.82 J	0.76 J	< 1.0 U	< 5.0 U	3.0 J	6	1.6 J	< 10 U	5.2 J	16	12	7.2
Methylene Chloride	5	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 10 U	< 5.0 U
M-P-Xylene	NSL	µg/L	4.6	2.4	0.72 J	< 10 U	< 10 U	8.7 J	10 J	< 20 U	180	< 2.0 U	150	26
Naphthalene	10	µg/L	1	0.89 J	0.48 J	< 5.0 U	< 5.0 U	6.5	< 10 U	< 10 U	23	1.6	12	9.3
N-Butylbenzene	5	µg/L	1.1	< 1.0 U	< 1.0 U	< 5.0 U	5.2	38	6.8 J	< 10 U	19	67	59	29
N-Propylbenzene	NSL	µg/L	1.1	0.76 J	< 1.0 U	< 5.0 U	3.8 J	18	7.5 J	7.0 J	38	7.1	72	32
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	4.8	3.2	0.99 J	< 5.0 U	< 5.0 U	5.9	31	< 10 U	100	< 1.0 U	180	44
Sec-Butylbenzene	5	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	7	23	< 10 U	< 10 U	13	34	40	25
Styrene	5	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 10 U	< 5.0 U
T-Butylbenzene	5	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 10 U	< 5.0 U
Tert-Butyl Methyl Ether	10	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 10 U	< 5.0 U
Tetrachloroethylene (PCE)	5	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 10 U	< 5.0 U
Toluene	5	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	7.4 J	< 1.0 U	< 10 U	< 5.0 U
Trans-1,2-Dichloroethene	5	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 10 U	< 5.0 U
Trans-1,3-Dichloropropene	0.4	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 10 U	< 5.0 U
Trichloroethylene (TCE)	5	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 10 U	< 5.0 U
Trichlorofluoromethane	5	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 10 U	< 5.0 U
Vinyl Acetate	NSL	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 25 U	< 25 U	< 25 U	< 50 U	< 50 U	< 50 U	< 5.0 U	< 50 U	< 25 U
Vinyl Chloride	2	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 10 U	< 10 U	< 10 U	< 1.0 U	< 10 U	< 5.0 U
Xylenes	5	µg/L	9.4	5.6	1.7 J	< 10 U	< 10 U	15	41	< 20 U	280	< 2.0 U	330	70
Pesticides (SW8081)														
Alachlor	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	NSL	µg/L	< 0.047 U	< 0.046 U	< 0.048 U	< 0.048 U	0.0080 J	0.032 J	0.040 J	< 0.50 U	< 0.049 U	< 0.25 U	< 0.25 U	0.048 J
Alpha Bhc (Alpha Hexachlorocyclohexane)	NSL	µg/L	0.022 J	0.012 J	< 0.048 U	0.014 J	< 0.049 U	< 0.050 U	0.026 J	< 0.50 U	0.027 J	0.047 J	< 0.25 U	< 0.050 U
Alpha Endosulfan	NSL	µg/L	0.038 J	< 0.046 U	< 0.048 U	< 0.048 U	< 0.049 U	0.18	0.17	< 0.50 U	< 0.049 U	< 0.25 U	< 0.25 U	< 0.050 U
Beta Bhc (Beta Hexachlorocyclohexane)	NSL	µg/L	< 0.047 U	< 0.046 U	< 0.048 U	< 0.048 U	< 0.049 U	< 0.050 U	< 0.048 U	< 0.50 U	< 0.049 U	< 0.25 U	< 0.25 U	< 0.050 U
Beta Endosulfan	NSL	µg/L	0.023 J	< 0.046 U	< 0.048 U	< 0.048 U	< 0.049 U	< 0.050 U	0.036 J	< 0.50 U	< 0.049 U	< 0.25 U	< 0.25 U	0.027 J
Chlordane	0.05	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlordane (Technical)	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-Chlordane	NSL	µg/L	0.21	0.014 J	< 0.048 U	< 0.048 U	< 0.049 U	0.040 J	0.31	< 0.50 U	0.017 J	0.78	< 0.25 U	< 0.050 U
Delta BHC (Delta Hexachlorocyclohexane)	NSL	µg/L	< 0.047 U	< 0.046 U	< 0.048 U	0.012 J	< 0.049 U	< 0.050 U	0.017 J	< 0.50 U	0.011 J	< 0.25 U	< 0.25 U	< 0.050 U
Dieldrin	0.004	µg/L	0.032 J	< 0.046 U	< 0.048 U	< 0.048 U	< 0.049 U	0.015 J	0.041 J	< 0.50 U	< 0.049 U	< 0.25 U	< 0.25 U	0.042 J
Endosulfan Sulfate	NSL	µg/L	0.020 J	0.016 J	< 0.048 U	0.023 J	< 0.049 U	0.042 J	< 0.048 U	< 0.50 U	< 0.049 U	< 0.25 U	< 0.25 U	< 0.050 U
Endrin	NSL	µg/L	< 0.047 U	< 0.046 U	< 0.048 U	< 0.048 U	< 0.049 U	0.014 J	0.013 J	< 0.50 U	< 0.049 U	< 0.25 U	< 0.25 U	< 0.050 U
Endrin Aldehyde	5	µg/L	< 0.047 U	< 0.046 U	< 0.048 U	< 0.048 U	0.026 J	0.045 J	< 0.048 U	< 0.50 U	0.028 J	< 0.25 U	< 0.25 U	0.037 J
Endrin Ketone	5	µg/L	< 0.047 U	< 0.046 U	< 0.048 U	< 0.048 U	< 0.049 U	< 0.050 U	< 0.048 U	< 0.50 U	< 0.049 U	< 0.25 U	0.11 J	< 0.050 U
Gamma Bhc (Lindane)	NSL	µg/L	< 0.047 U	< 0.046 U	< 0.048 U	< 0.048 U	< 0.049 U	0.0092 J	0.021 J	< 0.50 U	< 0.049 U	< 0.25 U	< 0.25 U	0.0094 J
Heptachlor	0.04	µg/L	< 0.047 U	< 0.046 U	< 0.048 U	0.025 J	< 0.049 U	< 0.050 U	0.049	< 0.50 U	< 0.049 U	< 0.25 U	< 0.25 U	< 0.050 U
Heptachlor Epoxide	0.03	µg/L	0.016 J	< 0.046 U	< 0.048 U	< 0.048 U	< 0.049 U	0.052	< 0.048 U	< 0.50 U	0.025 J	< 0.25 U	< 0.25 U	< 0.050 U
Hexachlorobenzene	0.04	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	35	µg/L	< 0.047 U	< 0.046 U	< 0.048 U	0.025 J	< 0.049 U	0.053	< 0.048 U	< 0.50 U	0.042 J	< 0.25 U	< 0.25 U	0.16
P,P'-DDD	0.3	µg/L	0.073	0.12	0.023 J	0.033 J	0.017 J	0.0094 J	< 0.048 U	< 0.50 U	< 0.049 U	0.093 J	0.050 J	0.015 J
P,P'-DDE	0.2	µg/L	0.026 J	0.025 J	< 0.048 U	0.014 J	0.020 J	0.012 J	0.032 J	< 0.50 U	0.032 J	< 0.25 U	< 0.25 U	0.026 J
P,P'-DDT	0.2	µg/L	0.021 J	< 0.046 U	< 0.048 U	< 0.048 U	< 0.049 U	0.023 J	0.023 J	0.19 J	< 0.049 U	< 0.25 U	< 0.25 U	0.032 J
Toxaphene	0.06	µg/L	< 0.47 U	< 0.46 U	< 0.48 U	< 0.48 U	< 0.49 U	< 0.50 U	< 0.48 U	< 5.0 U	< 0.49 U	< 2.5 U	< 2.5 U	< 0.50 U
trans-Chlordane	NSL	µg/L	0.23	0.035 J	< 0.048 U	< 0.048 U	< 0.049 U	0.020 J	0.18	< 0.50 U	< 0.049 U	0.23 J	< 0.25 U	< 0.050 U

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).
µg/L = Microgram(s) per liter
J = Concentration is estimated
J+ = Concentration is estimated, biased high
NA = Not analyzed
ng/L = Nanogram(s) per liter
NSL = No screening level available
U = Analyte not detected
Concentrations exceeding the screening level are shaded gray

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			GW-21 7/9/2014 GW-121-20140709	GW-22 7/9/2014 GW-122-20140709	GW-23 7/9/2014 GW-123-20140709	GW-24 8/3/2015 GW-24-20150803	GW-25 8/3/2015 GW-25-20150803	GW-26 8/3/2015 GW-26-20150803	GW-27 8/3/2015 GW-27-20150803	GW-28 8/3/2015 GW-28-20150803	GW-29 8/4/2015 GW-29-20150804	GW-3 7/7/2014 GW-13-20140707	GW-30 8/4/2015 GW-30-20150804	GW-31 8/4/2015 GW-31-20150804
Analyte	NYSDEC AWQS ¹	Unit												
SVOCs (SW8270)														
1,2,4,5-Tetrachlorobenzene	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NSL	µg/L	<4.5 U	<4.6 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<50 U	<5.0 U	<5.1 U
2,4,6-Trichlorophenol	NSL	µg/L	<4.5 U	<4.6 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<50 U	<5.0 U	<5.1 U
2,4-Dichlorophenol	5	µg/L	<1.8 U	<1.9 U	<1.9 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<20 U	<5.0 U	<5.1 U
2,4-Dimethylphenol	50	µg/L	<1.8 U	<1.9 U	<1.9 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	4.5 J	<20 U	2.3 J	0.64 J
2,4-Dinitrophenol	10	µg/L	<36 U	<37 U	<38 U	<9.5 U	<9.6 U	<9.5 U	<9.6 U	<9.6 U	<9.6 U	<400 U	<10 U	<10 U
2,4-Dinitrotoluene	5	µg/L	<4.5 U	<4.6 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<50 U	<5.0 U	<5.1 U
2,6-Dinitrotoluene	5	µg/L	<4.5 U	<4.6 U	<4.8 U	<4.8 U	0.80 J	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<50 U	<5.0 U	<5.1 U
2-Chloronaphthalene	10	µg/L	<0.89 U	<0.93 U	<0.96 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<10 U	<5.0 U	<5.1 U
2-Chlorophenol	1	µg/L	<0.89 U	<0.93 U	<0.96 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<10 U	<5.0 U	<5.1 U
2-Methylnaphthalene	NSL	µg/L	<0.18 U	<0.19 U	<0.19 U	<4.8 U	<4.8 U	2.1 J	<4.8 U	<4.8 U	5.9	4.1	0.92 J	<5.1 U
2-Methylphenol (O-Cresol)	NSL	µg/L	<0.89 U	<0.93 U	<0.96 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<10 U	<5.0 U	<5.1 U
2-Nitroaniline	5	µg/L	<1.8 U	<1.9 U	<1.9 U	<9.5 U	<9.6 U	<9.5 U	<9.6 U	<9.6 U	<9.6 U	<20 U	<10 U	<10 U
2-Nitrophenol	NSL	µg/L	<1.8 U	<1.9 U	<1.9 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<20 U	<5.0 U	<5.1 U
3- And 4- Methylphenol (Total)	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	5	µg/L	<4.5 U	<4.6 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<50 U	<5.0 U	<5.1 U
3-Nitroaniline	5	µg/L	<1.8 U	<1.9 U	<1.9 U	<9.5 U	<9.6 U	<9.5 U	<9.6 U	<9.6 U	<9.6 U	<20 U	<10 U	<10 U
4,6-Dinitro-2-Methylphenol	NSL	µg/L	<4.5 U	<4.6 U	<4.8 U	<9.5 U	<9.6 U	<9.5 U	<9.6 U	<9.6 U	<9.6 U	<50 U	<10 U	<10 U
4-Bromophenyl Phenyl Ether	NSL	µg/L	<1.8 U	<1.9 U	<1.9 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<20 U	<5.0 U	<5.1 U
4-Chloro-3-Methylphenol	NSL	µg/L	<1.8 U	<1.9 U	<1.9 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<20 U	<5.0 U	<5.1 U
4-Chloroaniline	5	µg/L	<1.8 U	<1.9 U	<1.9 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<20 U	<5.0 U	<5.1 U
4-Chlorophenyl Phenyl Ether	NSL	µg/L	<1.8 U	<1.9 U	<1.9 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<20 U	<5.0 U	<5.1 U
4-Methylphenol (P-Cresol)	NSL	µg/L	NA	NA	NA	<9.5 U	<9.6 U	<9.5 U	<9.6 U	<9.6 U	<9.6 U	NA	<10 U	<10 U
4-Nitroaniline	5	µg/L	<1.8 U	<1.9 U	<1.9 U	<9.5 U	<9.6 U	<9.5 U	<9.6 U	<9.6 U	<9.6 U	<20 U	<10 U	<10 U
4-Nitrophenol	NSL	µg/L	<4.5 U	<4.6 U	<4.8 U	<9.5 U	<9.6 U	<9.5 U	<9.6 U	<9.6 U	<9.6 U	<50 U	<10 U	<10 U
Acenaphthene	20	µg/L	<0.18 U	<0.19 U	<0.19 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<2.0 U	<5.0 U	<5.1 U
Acenaphthylene	NSL	µg/L	<0.18 U	<0.19 U	<0.19 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<2.0 U	<5.0 U	<5.1 U
Acetophenone	NSL	µg/L	1.7	1.7	2.2	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<10 U	<5.0 U	<5.1 U
Anthracene	50	µg/L	<0.18 U	<0.19 U	<0.19 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<2.0 U	<5.0 U	<5.1 U
Atrazine	NSL	µg/L	<0.89 U	<0.93 U	<0.96 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<10 U	<5.0 U	<5.1 U
Benzaldehyde	NSL	µg/L	<0.89 U	<0.93 U	<0.96 U	0.57 J	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<10 U	20	9.6
Benzo(A)Anthracene	0.002	µg/L	<0.18 U	<0.19 U	<0.19 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<2.0 U	<5.0 U	<5.1 U
Benzo(A)Pyrene	NSL	µg/L	<0.18 U	<0.19 U	<0.19 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<2.0 U	<5.0 U	<5.1 U
Benzo(B)Fluoranthene	0.002	µg/L	<0.18 U	<0.19 U	<0.19 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<2.0 U	<5.0 U	<5.1 U
Benzo(G,H,I)Perylene	NSL	µg/L	<0.18 U	<0.19 U	<0.19 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<2.0 U	<5.0 U	<5.1 U
Benzo(K)Fluoranthene	0.002	µg/L	<0.18 U	<0.19 U	<0.19 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<2.0 U	<5.0 U	<5.1 U
Benzyl Butyl Phthalate	50	µg/L	<0.89 U	<0.93 U	<0.96 U	0.59 J	0.62 J	0.59 J	0.56 J	<4.8 U	<4.8 U	<10 U	0.43 J	0.61 J
Biphenyl (Diphenyl or 1,1'-Biphenyl)	5	µg/L	<0.89 U	<0.93 U	<0.96 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<10 U	<5.0 U	<5.1 U
Bis(2-Chloroethoxy) Methane	5	µg/L	<0.89 U	<0.93 U	<0.96 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<10 U	<5.0 U	<5.1 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	µg/L	<0.89 U	<0.93 U	<0.96 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<10 U	<5.0 U	<5.1 U
Bis(2-Chloroisopropyl) Ether	5	µg/L	<0.89 U	<0.93 U	<0.96 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<10 U	<5.0 U	<5.1 U
Bis(2-Ethylhexyl) Phthalate	5	µg/L	20	19	11	2.1 J	19	2.8 J	<4.8 U	<4.8 U	<4.8 U	350	3.9 J	2.1 J
Caprolactam	NSL	µg/L	<4.5 U	1.1 J	3.0 J	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<50 U	<5.0 U	<5.1 U
Carbazole	NSL	µg/L	<0.89 U	<0.93 U	<0.96 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<10 U	<5.0 U	<5.1 U
Chrysene	0.002	µg/L	<0.18 U	<0.19 U	<0.19 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<2.0 U	<5.0 U	<5.1 U
Dibenz(A,H)Anthracene	NSL	µg/L	<0.18 U	<0.19 U	<0.19 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<2.0 U	<5.0 U	<5.1 U
Dibenzofuran	NSL	µg/L	<0.89 U	<0.93 U	<0.96 U	<9.5 U	<9.6 U	<9.5 U	<9.6 U	<9.6 U	<9.6 U	<10 U	<10 U	<10 U
Diethyl Phthalate	50	µg/L	0.47 J	<0.93 U	0.59 J	4.4 J	0.76 J	<4.8 U	<4.8 U	<4.8 U	<4.8 U	0.33 J	<10 U	0.47 J
Dimethyl Phthalate	50	µg/L	<0.89 U	<0.93 U	<0.96 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<10 U	<5.0 U	<5.1 U
Di-N-Butyl Phthalate	50	µg/L	3.1	1.9	3.4	2.7 J	2.5 J	0.65 J	0.89 J	0.64 J	0.94 J	4.6 J	1.9 J	1.0 J
Di-N-Octylphthalate	50	µg/L	<0.89 U	<0.93 U	<0.96 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<10 U	<5.0 U	<5.1 U
Fluoranthene	50	µg/L	<0.18 U	<0.19 U	<0.19 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<2.0 U	<5.0 U	<5.1 U
Fluorene	50	µg/L	<0.18 U	<0.19 U	<0.19 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<2.0 U	<5.0 U	<5.1 U
Hexachlorobenzene	0.04	µg/L	<0.89 U	<0.93 U	<0.96 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<10 U	<5.0 U	<5.1 U
Hexachlorobutadiene	0.5	µg/L	<0.89 U	<0.93 U	<0.96 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<10 U	<5.0 U	<5.1 U
Hexachlorocyclopentadiene	5	µg/L	<8.9 U	<9.3 U	<9.6 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<100 U	<5.0 U	<5.1 U
Hexachloroethane	5	µg/L	<0.89 U	<0.93 U	<0.96 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<10 U	<5.0 U	<5.1 U
Indeno(1,2,3-C,D)Pyrene	0.002	µg/L	<0.18 U	<0.19 U	<0.19 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<2.0 U	<5.0 U	<5.1 U
Isophorone	50	µg/L	<0.89 U	<0.93 U	<0.96 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<10 U	<5.0 U	<5.1 U
Naphthalene	10	µg/L	0.26	0.3	0.4	<4.8 U	<4.8 U	2.2 J	<4.8 U	<4.8 U	21	<2.0 U	8	5.4
Nitrobenzene	0.4	µg/L	<0.89 U	<0.93 U	<0.96 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<10 U	<5.0 U	<5.1 U
N-Nitrosodi-N-Propylamine	NSL	µg/L	<0.89 U	<0.93 U	<0.96 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<10 U	<5.0 U	<5.1 U
N-Nitrosodiphenylamine	50	µg/L	<0.89 U	<0.93 U	<0.96 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<10 U	<5.0 U	<5.1 U
Pentachlorophenol	1	µg/L	<36 U	<37 U	<38 U	<9.5 U	<9.6 U	<9.5 U	<9.6 U	<9.6 U	<9.6 U	<400 U	<10 U	<10 U
Phenanthrene	50	µg/L	<0.18 U	<0.19 U	<0.19 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<2.0 U	<5.0 U	<5.1 U
Phenol	NSL	µg/L	1.4	<0.93 U	1.6	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<10 U	<5.0 U	<5.1 U
Pyrene	50	µg/L	<0.18 U	<0.19 U	<0.19 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<2.0 U	<5.0 U	<5.1 U

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).
µg/L = Microgram(s) per liter
J = Concentration is estimated
J+ = Concentration is estimated, biased high
NA = Not analyzed
ng/L = Nanogram(s) per liter
NSL = No screening level available
U = Analyte not detected
Concentrations exceeding the screening level are shaded gray

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			GW-32 8/4/2015 GW-32-20150804	GW-33 8/4/2015 GW-33-20150804	GW-34 8/4/2015 GW-34-20150804	GW-35 8/4/2015 GW-35-20150804	GW-36 8/4/2015 GW-36-20150804	GW-37 8/4/2015 GW-37-20150804	GW-4 7/7/2014 GW-14-20140707	GW-5 7/8/2014 GW-15-20140708	GW-6 7/8/2014 GW-16-20140708	GW-7 7/8/2014 GW-17-20140708	GW-7 7/8/2014 DUP-1-20140708 GW-17-20140708	GW-8 7/8/2014 GW-18-20140708
Analyte	NYSDEC AWQS ¹	Unit												
PFAS (E537/E1633)														
11-Chloroicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11CI-PF3OUdS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9CI-PF3ONS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic Acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	6.7	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTriA/PFTriDA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs (SW8260)														
1,1,1,2-Tetrachloroethane	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
1,1,1-Trichloroethane (TCA)	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
1,1,2,2-Tetrachloroethane	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
1,1,2-Trichloroethane	1	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
1,1-Dichloroethane	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
1,1-Dichloroethene	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
1,1-Dichloropropene	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
1,2,3-Trichlorobenzene	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
1,2,3-Trichloropropene	0.04	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	2.2	< 5.0 U	< 10 U	< 10 U	< 1.0 U
1,2,4-Trichlorobenzene	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
1,2,4-Trimethylbenzene	NSL	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	21	5.4	540	240	490	1300	1200	710
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
1,2-Dibromooethane (Ethylene Dibromide)	NSL	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
1,2-Dichlorobenzene	3	µg/L	7.7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	23	< 1.0 U	8.3	35	36	12
1,2-Dichloroethane	0.6	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
1,2-Dichloropropane	1	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	NSL	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	3.8	< 1.0 U	220	120	220	390	410	250
1,3-Dichlorobenzene	3	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
1,3-Dichloropropane	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
1,4-Dichlorobenzene	3	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	2.1
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	NSL	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
2-Chlorotoluene	NSL	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
2-Hexanone	50	µg/L	< 25 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 25 U	< 5.0 U	< 25 U	< 50 U	< 50 U	< 5.0 U
4-Chlorotoluene	NSL	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
Acetone	50	µg/L	< 50 U	< 10 U	< 10 U	< 10 U	45 J	< 10 U	22 J	19	48 J	31 J	31 J	24
Benzene	1	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
Bromobenzene	NSL	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
Bromochloromethane	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
Bromodichloromethane	50	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
Bromoform	50	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U

Notes:

(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).

µg/L = Microgram(s) per liter

J = Concentration is estimated

J± = Concentration is estimated, biased high

NA = Not analyzed

ng/L = Nanogram(s) per liter

NSL - No screening level available

U = Analyte not detected

Concentrations exceeding the screening level are shaded gray

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			GW-32 8/4/2015 GW-32-20150804	GW-33 8/4/2015 GW-33-20150804	GW-34 8/4/2015 GW-34-20150804	GW-35 8/4/2015 GW-35-20150804	GW-36 8/4/2015 GW-36-20150804	GW-37 8/4/2015 GW-37-20150804	GW-4 7/7/2014 GW-14-20140707	GW-5 7/8/2014 GW-15-20140708	GW-6 7/8/2014 GW-16-20140708	GW-7 7/8/2014 GW-17-20140708	GW-7 7/8/2014 DUP-1-20140708 GW-17-20140708	GW-8 7/8/2014 GW-18-20140708
Analyte	NYSDEC AWQS ¹	Unit												
Bromomethane	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
Carbon Disulfide	60	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.68 J	< 1.0 U	1.5 J	1.3	< 5.0 U	3.7 J	4.3 J	2.2
Carbon Tetrachloride	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
Chlorobenzene	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
Chloroethane	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
Chloroform	7	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	1.4	1.7	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
Chloromethane (Methyl Chloride)	NSL	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
Cis-1,2-Dichloroethylene	5	µg/L	6.1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	8	11	10	5.5
Cis-1,3-Dichloropropene	0.4	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
Cyclohexane	NSL	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
Cymene	NSL	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	2.9	1.1	70	44	52	69	73	47
Dibromochloromethane	50	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
Dibromomethane	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
Dichlorodifluoromethane	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
Ethylbenzene	5	µg/L	17	< 1.0 U	< 1.0 U	< 1.0 U	2.1	< 1.0 U	49	2.1	48	69	71	46
Hexachlorobutadiene	0.5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
Iodomethane (Methyl Iodide)	NSL	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
Isopropylbenzene (Cumene)	5	µg/L	6	< 1.0 U	< 1.0 U	< 1.0 U	2.1	< 1.0 U	28	7.4	24	30	32	24
Methyl Acetate	NSL	µg/L	< 13 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 13 U	< 2.5 U	< 13 U	< 25 U	< 25 U	< 2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	< 50 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 50 U	5.0 J	20 J	< 100 U	< 100 U	16
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 25 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 25 U	< 5.0 U	< 25 U	< 50 U	< 50 U	< 5.0 U
Methylcyclohexane	NSL	µg/L	1.7 J	< 1.0 U	< 1.0 U	< 1.0 U	1.2	0.41 J	16	10	16	4.4 J	4.3 J	7.6
Methylene Chloride	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
M-P-Xylene	NSL	µg/L	< 10 U	< 2.0 U	< 2.0 U	< 2.0 U	3.9	< 2.0 U	210	5.3	230	490	510	230
Naphthalene	10	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	9.4	< 1.0 U	65	6.6	64	130	130	76
N-Butylbenzene	5	µg/L	4.9 J	< 1.0 U	< 1.0 U	< 1.0 U	4.4	2.5	110	47	93	110	120	72
N-Propylbenzene	NSL	µg/L	7	< 1.0 U	< 1.0 U	< 1.0 U	5.9	2.5	63	30	44	76	80	55
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	3.8	< 1.0 U	140	6.8	140	340	360	140
Sec-Butylbenzene	5	µg/L	4.8 J	< 1.0 U	< 1.0 U	< 1.0 U	2.7	7.8	50	30	35	47	49	33
Styrene	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
T-Butylbenzene	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.85 J	6.1	4.4	4.7 J	< 10 U	< 10 U	3.9
Tert-Butyl Methyl Ether	10	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
Tetrachloroethylene (PCE)	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	0.60 J	< 1.0 U	< 1.0 U	14	3.6	16	52	54	15
Toluene	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	7.2	< 1.0 U	3.6 J	16	16	7.3
Trans-1,2-Dichloroethene	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
Trans-1,3-Dichloropropene	0.4	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
Trichloroethylene (TCE)	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	1.8	8.8	< 10 U	< 10 U	1.2
Trichlorofluoromethane	5	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
Vinyl Acetate	NSL	µg/L	< 25 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 25 U	< 5.0 U	< 25 U	< 50 U	< 50 U	< 5.0 U
Vinyl Chloride	2	µg/L	< 5.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 1.0 U	< 5.0 U	< 10 U	< 10 U	< 1.0 U
Xylenes	5	µg/L	< 10 U	< 2.0 U	< 2.0 U	< 2.0 U	7.7	< 2.0 U	350	12	370	830	870	370
Pesticides (SW8081)														
Alachlor	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	NSL	µg/L	< 0.10 U	0.014 J	< 0.10 U	< 0.051 U	0.013 J	< 0.052 U	0.028 J	0.056 J	0.059 J	< 0.49 U	< 4.8 U	< 0.24 U
Alpha Bhe (Alpha Hexachlorocyclohexane)	NSL	µg/L	0.016 J	0.023 J	< 0.10 U	< 0.051 U	< 0.049 U	< 0.052 U	0.061	0.058 J	< 0.28 U	0.48 J	< 4.8 U	0.088 J
Alpha Endosulfan	NSL	µg/L	< 0.10 U	0.040 J	< 0.10 U	< 0.051 U	< 0.049 U	< 0.052 U	< 0.054 U	< 0.26 U	< 0.28 U	< 0.49 U	< 4.8 U	< 0.24 U
Beta Bhe (Beta Hexachlorocyclohexane)	NSL	µg/L	< 0.10 U	< 0.050 U	< 0.10 U	< 0.051 U	< 0.049 U	< 0.052 U	< 0.054 U	< 0.26 U	< 0.28 U	0.36 J	< 4.8 U	< 0.24 U
Beta Endosulfan	NSL	µg/L	< 0.10 U	< 0.050 U	< 0.10 U	< 0.051 U	< 0.049 U	< 0.052 U	0.014 J	< 0.26 U	< 0.28 U	< 0.49 U	< 4.8 U	< 0.24 U
Chlordane	0.05	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlordane (Technical)	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-Chlordane	NSL	µg/L	< 0.10 U	0.015 J	< 0.10 U	< 0.051 U	0.020 J	< 0.052 U	0.44	0.36	1.1	3	3.2 J	< 0.24 U
Delta BHC (Delta Hexachlorocyclohexane)	NSL	µg/L	< 0.10 U	< 0.050 U	< 0.10 U	< 0.051 U	< 0.049 U	< 0.052 U	< 0.054 U	< 0.26 U	< 0.28 U	0.48 J	< 4.8 U	< 0.24 U
Dieldrin	0.004	µg/L	< 0.10 U	< 0.050 U	< 0.10 U	< 0.051 U	< 0.049 U	< 0.052 U	0.077	< 0.26 U	0.083 J	0.18 J	< 4.8 U	< 0.24 U
Endosulfan Sulfate	NSL	µg/L	< 0.10 U	< 0.050 U	< 0.10 U	< 0.051 U	< 0.049 U	< 0.052 U	< 0.054 U	< 0.26 U	< 0.28 U	< 0.49 U	< 4.8 U	< 0.24 U
Endrin	NSL	µg/L	< 0.10 U	< 0.050 U	< 0.10 U	< 0.051 U	< 0.049 U	< 0.052 U	< 0.054 U	< 0.26 U	< 0.28 U	< 0.49 U	< 4.8 U	< 0.24 U
Endrin Aldehyde	5	µg/L	0.043 J	< 0.050 U	0.069 J	0.023 J	< 0.049 U	< 0.052 U	< 0.054 U	< 0.26 U	< 0.28 U	< 0.49 U	< 4.8 U	< 0.24 U
Endrin Ketone	5	µg/L	< 0.10 U	< 0.050 U	< 0.10 U	< 0.051 U	< 0.049 U	< 0.052 U	< 0.054 U	< 0.26 U	< 0.28 U	< 0.49 U	< 4.8 U	< 0.24 U
Gamma Bhe (Lindane)	NSL	µg/L	< 0.10 U	< 0.050 U	< 0.10 U	< 0.051 U	< 0.049 U	< 0.052 U	< 0.054 U	< 0.26 U	< 0.28 U	< 0.49 U	< 4.8 U	< 0.24 U
Heptachlor	0.04	µg/L	< 0.10 U	0.017 J	< 0.10 U	< 0.051 U	< 0.049 U	< 0.052 U	< 0.054 U	< 0.26 U	0.12 J	< 0.49 U	< 4.8 U	< 0.24 U
Heptachlor Epoxide	0.03	µg/L	< 0.10 U	< 0.050 U	< 0.10 U	0.017 J	< 0.049 U	< 0.052 U	< 0.054 U	< 0.26 U	0.91	1.7	< 4.8 U	< 0.24 U
Hexachlorobenzene	0.04	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	35	µg/L	< 0.10 U	0.051	< 0.10 U	< 0.051 U	0.058	< 0.052 U	0.23	< 0.26 U	< 0.28 U	< 0.49 U	< 4.8 U	< 0.24 U
P,P'-DDD	0.3	µg/L	0.063 J	0.042 J	0.037 J	0.018 J	< 0.049 U	0.013 J	0.012 J	0.10 J	0.071 J	0.88	< 4.8 U	0.050 J
P,P'-DDE	0.2	µg/L	0.080 J	0.033 J	0.073 J	0.033 J	0.029 J	0.026 J	0.021 J	< 0.26 U	< 0.28 U	0.39 J	< 4.8 U	< 0.24 U
P,P'-DDT	0.2	µg/L	< 0.10 U	0.033 J	< 0.10 U	0.025 J	0.025 J	0.025 J	< 0.054 U	< 0.26 U	< 0.28 U	0.26 J	< 4.8 U	< 0.24 U
Toxaphene	0.06	µg/L	< 1.0 U	< 0.50 U	< 1.0 U	< 0.51 U	< 0.49 U	< 0.52 U	< 0.54 U	< 2.6 U	< 2.8 U	< 4.9 U	< 48 U	< 2.4 U
trans-Chlordane	NSL	µg/L	< 0.10 U	< 0.050 U	< 0.10 U	< 0.051 U	< 0.049 U	< 0.052 U	0.18	0.13 J	0.67	2.2	1.5 J	0.10 J

Notes:

(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).

µg/L = Microgram(s) per liter

J = Concentration is estimated

J+ = Concentration is estimated, biased high

NA = Not analyzed

ng/L = Nanogram(s) per liter

NSL - No screening level available

U = Analyte not detected

Concentrations exceeding the screening level are shaded gray

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			GW-32 8/4/2015 GW-32-20150804	GW-33 8/4/2015 GW-33-20150804	GW-34 8/4/2015 GW-34-20150804	GW-35 8/4/2015 GW-35-20150804	GW-36 8/4/2015 GW-36-20150804	GW-37 8/4/2015 GW-37-20150804	GW-4 7/7/2014 GW-14-20140707	GW-5 7/8/2014 GW-15-20140708	GW-6 7/8/2014 GW-16-20140708	GW-7 7/8/2014 GW-17-20140708	GW-7 7/8/2014 DUP-1-20140708 GW-17-20140708	GW-8 7/8/2014 GW-18-20140708
Analyte	NYSDEC AWQS ¹	Unit												
SVOCs (SW8270)														
1,2,4,5-Tetrachlorobenzene	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NSL	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 5.4 U	< 5.0 U	< 5.2 U	< 9.3 U	< 9.6 U	< 4.6 U
2,4,6-Trichlorophenol	NSL	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 5.4 U	< 5.0 U	< 5.2 U	< 9.3 U	< 9.6 U	< 4.6 U
2,4-Dichlorophenol	5	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 2.2 U	< 2.0 U	< 2.1 U	< 3.7 U	< 3.8 U	< 1.9 U
2,4-Dimethylphenol	50	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 2.2 U	< 2.0 U	< 2.1 U	< 3.7 U	< 3.8 U	< 1.9 U
2,4-Dinitrophenol	10	µg/L	< 11 U	< 9.8 U	< 11 U	< 9.8 U	< 10 U	< 11 U	< 43 U	< 40 U	< 42 U	< 74 U	< 77 U	< 37 U
2,4-Dinitrotoluene	5	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 5.4 U	< 5.0 U	< 5.2 U	< 9.3 U	< 9.6 U	< 4.6 U
2,6-Dinitrotoluene	5	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 5.4 U	< 5.0 U	< 5.2 U	< 9.3 U	< 9.6 U	< 4.6 U
2-Chloronaphthalene	10	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 1.1 U	< 1.0 U	< 1.0 U	< 1.9 U	< 1.9 U	< 0.93 U
2-Chlorophenol	1	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 1.1 U	< 1.0 U	< 1.0 U	< 1.9 U	< 1.9 U	< 0.93 U
2-Methylnaphthalene	NSL	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	0.91 J	< 5.4 U	11	4.8	13	50	34	9.8
2-Methylphenol (O-Cresol)	NSL	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 1.1 U	< 1.0 U	< 1.0 U	< 1.9 U	< 1.9 U	< 0.93 U
2-Nitroaniline	5	µg/L	< 11 U	< 9.8 U	< 11 U	< 9.8 U	< 10 U	< 11 U	< 2.2 U	< 2.0 U	< 2.1 U	< 3.7 U	< 3.8 U	< 1.9 U
2-Nitrophenol	NSL	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 2.2 U	< 2.0 U	< 2.1 U	< 3.7 U	< 3.8 U	< 1.9 U
3- And 4- Methylphenol (Total)	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	5	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 5.4 U	< 5.0 U	< 5.2 U	< 9.3 U	< 9.6 U	< 4.6 U
3-Nitroaniline	5	µg/L	< 11 U	< 9.8 U	< 11 U	< 9.8 U	< 10 U	< 11 U	< 2.2 U	< 2.0 U	< 2.1 U	< 3.7 U	< 3.8 U	< 1.9 U
4,6-Dinitro-2-Methylphenol	NSL	µg/L	< 11 U	< 9.8 U	< 11 U	< 9.8 U	< 10 U	< 11 U	< 5.4 U	< 5.0 U	< 5.2 U	< 9.3 U	< 9.6 U	< 4.6 U
4-Bromophenyl Phenyl Ether	NSL	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 2.2 U	< 2.0 U	< 2.1 U	< 3.7 U	< 3.8 U	< 1.9 U
4-Chloro-3-Methylphenol	NSL	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 2.2 U	< 2.0 U	< 2.1 U	< 3.7 U	< 3.8 U	< 1.9 U
4-Chloroaniline	5	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 2.2 U	< 2.0 U	< 2.1 U	< 3.7 U	< 3.8 U	< 1.9 U
4-Chlorophenyl Phenyl Ether	NSL	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 2.2 U	< 2.0 U	< 2.1 U	< 3.7 U	< 3.8 U	< 1.9 U
4-Methylphenol (P-Cresol)	NSL	µg/L	< 11 U	< 9.8 U	< 11 U	< 9.8 U	< 10 U	< 11 U	NA	NA	NA	NA	NA	NA
4-Nitroaniline	5	µg/L	< 11 U	< 9.8 U	< 11 U	< 9.8 U	< 10 U	< 11 U	< 2.2 U	< 2.0 U	< 2.1 U	< 3.7 U	< 3.8 U	< 1.9 U
4-Nitrophenol	NSL	µg/L	< 11 U	< 9.8 U	< 11 U	< 9.8 U	< 10 U	< 11 U	< 5.4 U	< 5.0 U	< 5.2 U	< 9.3 U	< 9.6 U	< 4.6 U
Acenaphthene	20	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 0.22 U	< 0.20 U	< 0.21 U	< 0.37 U	< 0.38 U	< 0.19 U
Acenaphthylene	NSL	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 0.22 U	< 0.20 U	< 0.21 U	< 0.37 U	< 0.38 U	< 0.19 U
Acetophenone	NSL	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 1.1 U	< 1.0 U	< 1.0 U	< 1.9 U	< 1.9 U	< 0.93 U
Anthracene	50	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 0.22 U	< 0.20 U	< 0.21 U	< 0.37 U	< 0.38 U	< 0.19 U
Atrazine	NSL	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 1.1 U	< 1.0 U	< 1.0 U	< 1.9 U	< 1.9 U	< 0.93 U
Benzaldehyde	NSL	µg/L	0.54 J	0.40 J	0.59 J	0.52 J	3.8 J	0.57 J	< 1.1 U	< 1.0 U	< 1.0 U	< 1.9 U	< 1.9 U	< 0.93 U
Benzo(A)Anthracene	0.002	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	0.19 J	< 0.20 U	< 0.21 U	< 0.37 U	< 0.38 U	< 0.19 U
Benzo(A)Pyrene	NSL	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	0.14 J	< 0.20 U	< 0.21 U	< 0.37 U	< 0.38 U	< 0.19 U
Benzo(B)Fluoranthene	0.002	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	0.32	< 0.20 U	< 0.21 U	< 0.37 U	< 0.38 U	< 0.19 U
Benzo(G,H,I)Perylene	NSL	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	0.24	< 0.20 U	< 0.21 U	< 0.37 U	< 0.38 U	< 0.19 U
Benzo(K)Fluoranthene	0.002	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	0.31	< 0.20 U	< 0.21 U	< 0.37 U	< 0.38 U	< 0.19 U
Benzyl Butyl Phthalate	50	µg/L	0.55 J	< 4.9 U	0.45 J	< 4.9 U	< 5.1 U	< 5.4 U	0.80 J	0.46 J	< 1.0 U	< 1.9 U	< 1.9 U	0.59 J
Biphenyl (Diphenyl or 1,1'-Biphenyl)	5	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 1.1 U	< 1.0 U	1	< 1.9 U	< 1.9 U	0.67 J
Bis(2-Chloroethoxy) Methane	5	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 1.1 U	< 1.0 U	< 1.0 U	< 1.9 U	< 1.9 U	< 0.93 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 1.1 U	< 1.0 U	< 1.0 U	< 1.9 U	< 1.9 U	< 0.93 U
Bis(2-Chloroisopropyl) Ether	5	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 1.1 U	< 1.0 U	< 1.0 U	< 1.9 U	< 1.9 U	< 0.93 U
Bis(2-Ethylhexyl) Phthalate	5	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	3.3 J	3.6 J	39	31	18	69	23	10
Caprolactam	NSL	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 5.4 U	< 5.0 U	< 5.2 U	< 9.3 U	< 9.6 U	< 4.6 U
Carbazole	NSL	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 1.1 U	< 1.0 U	< 1.0 U	< 1.9 U	< 1.9 U	< 0.93 U
Chrysene	0.002	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	0.24	< 0.20 U	< 0.21 U	< 0.37 U	< 0.38 U	< 0.19 U
Dibenz(A,H)Anthracene	NSL	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 0.22 U	< 0.20 U	< 0.21 U	< 0.37 U	< 0.38 U	< 0.19 U
Dibenzofuran	NSL	µg/L	< 11 U	< 9.8 U	< 11 U	< 9.8 U	< 10 U	< 11 U	< 1.1 U	< 1.0 U	< 1.0 U	< 1.9 U	< 1.9 U	< 0.93 U
Diethyl Phthalate	50	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 1.1 U	< 1.0 U	< 1.0 U	< 1.9 U	< 1.9 U	< 0.93 U
Dimethyl Phthalate	50	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 1.1 U	< 1.0 U	< 1.0 U	< 1.9 U	< 1.9 U	< 0.93 U
Di-N-Butyl Phthalate	50	µg/L	0.97 J	< 4.9 U	0.40 J	0.54 J	1.3 J	0.62 J	4.3	< 1.0 U	< 1.0 U	< 1.9 U	6.6	4.2
Di-N-Octylphthalate	50	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	0.50 J	< 1.0 U	< 1.0 U	< 1.9 U	< 1.9 U	< 0.93 U
Fluoranthene	50	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	0.13 J	< 0.20 U	< 0.21 U	< 0.37 U	< 0.38 U	< 0.19 U
Fluorene	50	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 0.22 U	< 0.20 U	< 0.21 U	1.6	< 0.38 U	< 0.19 U
Hexachlorobenzene	0.04	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 1.1 U	< 1.0 U	< 1.0 U	< 1.9 U	< 1.9 U	< 0.93 U
Hexachlorobutadiene	0.5	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U	< 5.1 U	< 5.4 U	< 1.1 U	< 1.0 U	< 1.0 U	< 1.9 U	< 1.9 U	< 0.93 U
Hexachlorocyclopentadiene	5	µg/L	< 5.3 U	< 4.9 U	< 5.3 U	< 4.9 U</								

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			GW-9 7/8/2014 GW-19-20140708	K-2 1/10/2012 K-2	K-2 10/14/2015 K-2-20151014	K-2 3/16/2017 K-2 031617	K-2 5/15/2019 K-2 051519-20190515	K-2 5/23/2023 518014-K-2	K-3 1/10/2012 K-3	K-3 10/14/2015 K-3-20151014	K-3 3/16/2017 K-3 031617	K-3 5/13/2019 K-3 051319-20190513	K-3 5/23/2023 518014-K-3	MW-15D 1/10/2012 MW-15D	MW-15D 10/14/2015 MW-15D-20151014	MW-15D 3/15/2017 MW-15D 031517
Analyte	NYSDEC AWQS ¹	Unit														
PFAS (E537/E1633)																
11-Chlorocosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NSL	ng/L	NA	NA	NA	NA	NA	< 3.6 U	NA	NA	NA	NA	< 3.5 U	NA	NA	NA
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	< 86 U	< 3.6 U	NA	NA	NA	< 84 U	< 3.5 U	NA	NA
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	< 3.6 U	NA	NA	NA	NA	< 3.5 U	NA	NA
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	< 86 U	< 3.6 U	NA	NA	NA	< 84 U	< 3.5 U	NA	NA
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	< 45 U	NA	NA	NA	NA	NA	< 44 U	NA	NA
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	< 45 U	NA	NA	NA	NA	NA	< 44 U	NA	NA
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	< 9 U	NA	NA	NA	NA	NA	< 8.9 U	NA	NA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	NA	NA	NA	NA	< 3.6 U	NA	NA	NA	NA	NA	< 3.5 U	NA	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	NA	NA	NA	NA	NA	< 3.6 U	NA	NA	NA	NA	NA	< 3.5 U	NA	NA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	NA	NA	NA	NA	< 3.6 U	NA	NA	NA	NA	NA	< 3.5 U	NA	NA
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.9 U	NA	NA	NA	NA	NA	< 0.89 U	NA	NA
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	NA	NA	NA	NA	< 86 U	0.59 J	NA	NA	NA	< 84 U	< 0.89 U	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	< 9 U	NA	NA	NA	NA	NA	< 8.9 U	NA	NA
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.9 U	NA	NA	NA	NA	NA	< 0.89 U	NA	NA
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NSL	ng/L	NA	NA	NA	NA	< 86 UJ	< 0.9 U	NA	NA	NA	< 84 U	< 0.89 U	NA	NA	NA
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	< 9 U	NA	NA	NA	NA	NA	< 8.9 U	NA	NA
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	NA	NA	< 1.8 U	NA	NA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEsA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	NA	NA	< 1.8 U	NA	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	NA	NA	< 1.8 U	NA	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	NA	NA	< 1.8 U	NA	NA
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	NA	NA	NA	1.8 J	< 8.6 UJ	1.8	NA	NA	4.6	< 8.4 U	2.1	NA	NA	< 0.92 U
Perfluorobutanoic Acid	NSL	ng/L	NA	NA	NA	NA	< 8.6 U	2.3 J	NA	NA	NA	9.6 J	2.1 J	NA	NA	NA
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	NA	NA	NA	NA	< 8.6 U	< 0.9 U	NA	NA	NA	< 8.4 U	< 0.89 U	NA	NA	NA
Perfluorodecanoic acid (PFDA)	NSL	ng/L	NA	NA	NA	NA	< 8.6 U	0.24 J	NA	NA	NA	< 8.4 U	< 0.89 U	NA	NA	NA
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.9 U	NA	NA	NA	NA	NA	< 0.89 U	NA	NA
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	NA	NA	NA	NA	< 8.6 U	< 0.9 U	NA	NA	NA	< 8.4 U	< 0.89 U	NA	NA	NA
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	NA	NA	NA	NA	< 8.6 U	14	NA	NA	NA	4.9 J	2.8	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	NA	NA	NA	12	6.1 J	5.9	NA	NA	2.7	< 8.4 U	0.98	NA	NA	< 0.80 U
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	NA	NA	NA	15	5.0 J	9.2	NA	NA	37	13 J	3.6	NA	NA	< 0.87 U
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	NA	NA	NA	NA	4.6 J	2.6	NA	NA	NA	< 8.4 U	1.2	NA	NA	NA
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.9 U	NA	NA	NA	NA	< 0.89 U	NA	NA	NA
Perfluorononanoic acid (PFNA)	NSL	ng/L	NA	NA	NA	5	1.6 J	4.7	NA	NA	0.80 J	< 8.4 U	0.49 J	NA	NA	< 0.65 U
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	NA	NA	NA	NA	< 8.6 U	< 0.9 U	NA	NA	NA	< 8.4 U	2.3	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	NA	NA	NA	1500	1400 J	990	NA	NA	240	330 J	160	NA	NA	< 1.3 U
Perfluorooctanoic acid (PFOA)	6.7	ng/L	NA	NA	NA	150	44 J	66	NA	NA	20	15 J	8.1	NA	NA	1.6 J
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	NA	NA	NA	NA	1.5	NA	NA	NA	NA	2.2	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	NA	NA	NA	NA	4.8 J	0.91 J	NA	NA	NA	3.3 J	1.2 J	NA	NA	NA
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	NA	NA	NA	NA	< 8.6 U	< 0.9 U	NA	NA	NA	< 8.4 U	< 0.89 U	NA	NA	NA
Perfluorotridecanoic Acid (PFTriA/PFTriDA)	NSL	ng/L	NA	NA	NA	NA	< 8.6 U	< 0.9 U	NA	NA	NA	< 8.4 U	< 0.89 U	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	NA	NA	NA	NA	< 8.6 U	< 0.9 U	NA	NA	NA	< 8.4 U	< 0.89 U	NA	NA	NA
VOCs (SW8260)																
1,1,1,2-Tetrachloroethane	5	µg/L	< 1.0 U	NA	< 5.0 U	< 0.35 U	NA	NA	NA	< 1.0 U	< 0.35 U	NA	NA	NA	< 200 U	< 0.35 U
1,1,1-Trichloroethane (TCA)	5	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.82 U	< 1.0 U	< 1 U	< 1.0 U	< 1.0 U	< 0.82 U	< 1.0 U	< 1 U	< 1.0 U	< 200 U	< 0.82 U
1,1,2,2-Tetrachloroethane	5	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.21 U	< 1.0 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.21 U	< 1.0 U	< 0.5 U	< 1.0 U	< 200 U	< 0.21 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.31 U	< 1.0 U	< 1 U	< 1.0 U	< 1.0 U	< 0.31 U	< 1.0 U	< 1 U	< 1.0 U	< 200 U	< 0.31 U
1,1,2-Trichloroethane	1	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.23 U	< 1.0 U	< 1 U	< 1.0 U	< 1.0 U	< 0.23 U	< 1.0 U	< 1 U	< 1.0 U	< 200 U	< 0.23 U
1,1-Dichloroethane	5	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.38 U	< 1.0 U	< 1 U	< 1.0 U	< 1.0 U	< 0.38 U	< 1.0 U	< 1 U	< 1.0 U	< 200 U	< 0.38 U
1,1-Dichloroethene	5	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.29 U	< 1.0 U	< 1 U	< 1.0 U	< 1.0 U	< 0.29 U	< 1.0 U	< 1 U	< 1.0 U	< 200 U	< 0.29 U
1,1-Dichloropropene	5	µg/L	< 1.0 U	NA	< 5.0 U	< 0.72 U	NA	NA	NA	< 1.0 U	< 0.72 U	NA	NA	< 200 U	< 0.72 U	NA
1,2,3-Trichlorobenzene	5	µg/L	< 1.0 U	NA	< 5.0 U	< 0.41 U	NA	< 5 U	NA	< 1.0 U	< 0.41 U	NA	< 5 U	NA	< 200 U	< 0.41 U
1,2,3-Trichloropropane	0.04	µg/L	< 1.0 U	NA	< 5.0 U	< 0.89 U	NA	NA	NA	< 1.0 U	< 0.89 U	NA	NA	< 200 U	< 0.89 U	NA
1,2,4-Trichlorobenzene	5	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.41 U	< 1.0 U	< 1 U	< 1.0 U	< 1.0 U	< 0.41 U	< 1.0 U	< 1 U	< 1.0 U	< 200 U	< 0.41 U
1,2,4-Trimethylbenzene	NSL	µg/L	0.82 J	NA	16	< 0.75 U	< 1.0 U	NA	NA	< 1.0 U	< 0.75 U	< 1.0 U	NA	NA	< 200 U	< 0.75 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.39 U	< 1.0 U	< 5 U	< 1.0 U	< 1.0 U	< 0.39 U	< 1.0 U	< 5 U	< 1.0 U	< 200 U	< 0.39 U
1,2-Dibromoethane (Ethylene Dibromide)	NSL	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.73 U	< 1.0 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.73 U	< 1.0 U	< 0.5 U	< 1.0 U	< 200 U	< 0.73 U
1,2-Dichlorobenzene	3	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.79 U	< 1.0 U	< 1 U	< 1.0 U	< 1.0 U	< 0.79 U	< 1.0 U	< 1 U	< 1.0 U	< 200 U	< 0.79 U
1,2-Dichloroethane	0.6	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.21 U	< 1.0 U	< 1 U	< 1.0 U	< 1.0 U	< 0.21 U	< 1.0 U	< 1 U	< 1.0 U	< 200 U	< 0.21 U
1,2-Dichloropropane	1	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.72 U	< 1.0 U	< 1 U	< 1.0 U	< 1.0 U	< 0.72 U	< 1.0 U	< 1 U	< 1.0 U	< 200 U	< 0.72 U
1,3,5-Trimethylbenzene (Mesitylene)	NSL	µg/L	< 1.0 U	NA	< 5.0 U	< 0.77 U	< 1.0 U	NA	NA	< 1.0 U	< 0.77 U	< 1.0 U	NA	NA	< 200 U	< 0.77 U
1,3-Dichlorobenzene	3	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.78 U	< 1.0 U	< 1 U	< 1.0 U	< 1.0 U	< 0.78 U	< 1.0 U	< 1 U	< 1.0 U	< 200 U	< 0.78 U
1,3-Dichloropropane	5	µg/L	< 1.0 U	NA	< 5.0 U	< 0.75 U	NA	NA	NA	< 1.0 U	< 0.75 U	NA	NA	< 200 U	< 0.75 U	NA
1,4-Dichlorobenzene	3	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.84 U	< 1.0 U	< 1 U	< 1.0 U	< 1.0 U	<					

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			GW-9 7/8/2014 GW-19-20140708	K-2 1/10/2012 K-2	K-2 10/14/2015 K-2-20151014	K-2 3/16/2017 K-2 031617	K-2 5/15/2019 K-2 051519-20190515	K-2 5/23/2023 518014-K-2	K-3 1/10/2012 K-3	K-3 10/14/2015 K-3-20151014	K-3 3/16/2017 K-3 031617	K-3 5/13/2019 K-3 051319-20190513	K-3 5/23/2023 518014-K-3	MW-15D 1/10/2012 MW-15D	MW-15D 10/14/2015 MW-15D-20151014	MW-15D 3/15/2017 MW-15D 031517
Analyte	NYSDEC AWQS ¹	Unit														
Bromomethane	5	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.69 U	< 1.0 U	< 2 U	< 1.0 U	< 1.0 U	< 0.69 U	< 1.0 U	< 2 U	< 1.0 U	< 200 U	< 0.69 U
Carbon Disulfide	60	µg/L	0.50 J	< 1.0 U	< 5.0 U	< 0.19 U	< 1.0 U	< 5 U	< 1.0 U	< 1.0 U	< 0.19 U	< 1.0 U	< 5 U	< 1.0 U	< 200 U	< 0.19 U
Carbon Tetrachloride	5	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.27 U	< 1.0 U	< 5 U	< 1.0 U	< 1.0 U	< 0.27 U	< 1.0 U	< 5 U	< 1.0 U	< 200 U	< 0.27 U
Chlorobenzene	5	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.75 U	< 1.0 U	< 1 U	< 1.0 U	< 1.0 U	< 0.75 U	< 1.0 U	< 1 U	< 1.0 U	< 200 U	< 0.75 U
Chloroethane	5	µg/L	< 1.0 U	0.67 J	< 5.0 U	< 0.32 U	< 1.0 U	< 2 U	< 1.0 U	< 1.0 U	< 0.32 U	< 1.0 U	< 2 U	< 1.0 U	< 200 U	< 0.32 U
Chloroform	7	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.34 U	< 1.0 U	< 2 U	< 1.0 U	< 1.0 U	< 0.34 U	< 1.0 U	< 2 U	< 1.0 U	< 200 U	< 0.34 U
Chloromethane (Methyl Chloride)	NSL	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.35 U	< 1.0 U	< 2 U	< 1.0 U	< 1.0 U	< 0.35 U	< 1.0 U	< 2 U	< 1.0 U	< 200 U	< 0.35 U
Cis-1,2-Dichloroethylene	5	µg/L	< 1.0 U	4.2	< 5.0 U	< 0.81 U	< 1.0 U	< 1 U	< 1.0 U	< 1.0 U	< 0.81 U	< 1.0 U	< 1 U	< 1.0 U	< 200 U	< 0.81 U
Cis-1,3-Dichloropropene	0.4	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.36 U	< 1.0 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.36 U	< 1.0 U	< 0.5 U	< 1.0 U	< 200 U	< 0.36 U
Cyclohexane	NSL	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.18 U	< 1.0 U	< 5 U	< 1.0 U	< 1.0 U	< 0.18 U	< 1.0 U	< 5 U	< 1.0 U	< 200 U	< 0.18 U
Cymene	NSL	µg/L	< 1.0 U	NA	3.4 J	< 0.31 U	< 1.0 U	NA	NA	< 1.0 U	< 0.31 U	< 1.0 U	NA	NA	< 200 U	< 0.31 U
Dibromochloromethane	50	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.32 U	< 1.0 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.32 U	< 1.0 U	< 0.5 U	< 1.0 U	< 200 U	< 0.32 U
Dibromomethane	5	µg/L	< 1.0 U	NA	< 5.0 U	< 0.41 U	NA	NA	NA	< 1.0 U	< 0.41 U	NA	NA	NA	< 200 U	< 0.41 U
Dichlorodifluoromethane	5	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.68 U	< 1.0 U	< 2 U	< 1.0 U	< 1.0 U	< 0.68 U	< 1.0 U	< 2 U	< 1.0 U	< 200 U	< 0.68 U
Ethylbenzene	5	µg/L	< 1.0 U	13	7.1	< 0.74 U	< 1.0 U	0.30 J	< 1.0 U	< 1.0 U	< 0.74 U	< 1.0 U	< 1 U	< 1.0 U	< 200 U	< 0.74 U
Hexachlorobutadiene	0.5	µg/L	< 1.0 U	NA	< 5.0 U	< 0.28 U	NA	NA	NA	< 1.0 U	< 0.28 U	NA	NA	NA	< 200 U	< 0.28 U
Iodomethane (Methyl Iodide)	NSL	µg/L	< 1.0 U	NA	< 5.0 U	< 0.30 U	NA	NA	NA	< 1.0 U	< 0.30 U	NA	NA	NA	< 200 U	< 0.30 U
Isopropylbenzene (Cumene)	5	µg/L	< 1.0 U	2.6	< 5.0 U	< 0.79 U	< 1.0 U	< 1 U	< 1.0 U	< 1.0 U	< 0.79 U	< 1.0 U	< 1 U	< 1.0 U	< 200 U	< 0.79 U
Methyl Acetate	NSL	µg/L	< 2.5 U	< 1.0 U	< 13 U	< 1.3 U	< 5.0 U	< 1 U	< 1.0 U	< 2.5 U	< 1.3 U	< 5.0 U	< 1 U	< 1.0 U	< 500 U	< 1.3 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	< 10 U	< 10 U	7.4 J	< 1.3 U	< 5.0 U	< 20 U	< 10 U	13	< 1.3 U	< 5.0 U	< 20 U	< 10 U	< 2000 U	< 1.3 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 5.0 U	< 5.0 U	< 25 U	< 2.1 U	< 5.0 U	< 10 U	< 5.0 U	< 5.0 U	< 2.1 U	< 5.0 U	< 10 U	< 5.0 U	< 1000 U	< 2.1 U
Methylcyclohexane	NSL	µg/L	< 1.0 U	2.3	< 5.0 U	< 0.16 U	< 1.0 U	< 1 U	< 1.0 U	< 1.0 U	< 0.16 U	< 1.0 U	< 1 U	< 1.0 U	< 200 U	< 0.16 U
Methylene Chloride	5	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.44 U	< 1.0 U	< 5 U	< 1.0 U	< 1.0 U	< 0.44 U	< 1.0 U	< 5 U	< 1.0 U	< 200 U	< 0.44 U
M-P-Xylene	NSL	µg/L	< 2.0 U	19	28	< 0.66 U	< 1.0 U	NA	< 2.0 U	< 2.0 U	< 0.66 U	< 1.0 U	NA	< 2.0 U	< 400 U	< 0.66 U
Naphthalene	10	µg/L	1.5	NA	< 5.0 U	< 0.43 U	< 1.0 U	NA	NA	< 1.0 U	< 0.43 U	< 1.0 U	NA	NA	< 200 U	< 0.43 U
N-Butylbenzene	5	µg/L	< 1.0 U	NA	4.6 J	< 0.64 U	< 1.0 U	NA	NA	< 1.0 U	< 0.64 U	< 1.0 U	NA	NA	< 200 U	< 0.64 U
N-Propylbenzene	NSL	µg/L	< 1.0 U	NA	< 5.0 U	< 0.69 U	< 1.0 U	NA	NA	< 1.0 U	< 0.69 U	< 1.0 U	NA	NA	< 200 U	< 0.69 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	< 1.0 U	24	32	< 0.76 U	< 1.0 U	NA	< 1.0 U	< 1.0 U	< 0.76 U	< 1.0 U	NA	< 1.0 U	< 200 U	< 0.76 U
Sec-Butylbenzene	5	µg/L	< 1.0 U	NA	< 5.0 U	< 0.75 U	< 1.0 U	NA	NA	< 1.0 U	< 0.75 U	< 1.0 U	NA	NA	< 200 U	< 0.75 U
Styrene	5	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.73 U	< 1.0 U	< 1 U	< 1.0 U	< 1.0 U	< 0.73 U	< 1.0 U	< 1 U	< 1.0 U	< 200 U	< 0.73 U
T-Butylbenzene	5	µg/L	< 1.0 U	NA	< 5.0 U	< 0.81 U	< 1.0 U	NA	NA	< 1.0 U	< 0.81 U	< 1.0 U	NA	NA	< 200 U	< 0.81 U
Tert-Butyl Methyl Ether	10	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.16 U	< 1.0 U	< 1 U	< 1.0 U	< 1.0 U	< 0.16 U	< 1.0 U	< 1 U	< 1.0 U	< 200 U	< 0.16 U
Tetrachloroethylene (PCE)	5	µg/L	< 1.0 U	0.64 J	< 5.0 U	< 0.36 U	< 1.0 U	1.3	0.77 J	0.45 J	< 0.36 U	0.63 J	< 1 U	< 1.0 U	< 200 U	< 0.36 U
Toluene	5	µg/L	< 1.0 U	0.59 J	< 5.0 U	< 0.51 U	< 1.0 U	< 1 U	< 1.0 U	0.59 J	< 0.51 U	< 1.0 U	< 1 U	< 1.0 U	< 200 U	< 0.51 U
Trans-1,2-Dichloroethene	5	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.90 U	< 1.0 U	< 1 U	< 1.0 U	< 1.0 U	< 0.90 U	< 1.0 U	< 1 U	< 1.0 U	< 200 U	< 0.90 U
Trans-1,3-Dichloropropene	0.4	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.37 U	< 1.0 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.37 U	< 1.0 U	< 0.5 U	< 1.0 U	< 200 U	< 0.37 U
Trichloroethylene (TCE)	5	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.46 U	< 1.0 U	0.18 J	< 1.0 U	< 1.0 U	< 0.46 U	< 1.0 U	< 1 U	< 1.0 U	< 200 U	< 0.46 U
Trichlorofluoromethane	5	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.88 U	< 1.0 U	< 2 U	< 1.0 U	< 1.0 U	< 0.88 U	< 1.0 U	< 2 U	< 1.0 U	< 200 U	< 0.88 U
Vinyl Acetate	NSL	µg/L	< 5.0 U	NA	< 25 U	< 0.85 U	NA	NA	NA	< 5.0 U	< 0.85 U	NA	NA	NA	< 1000 U	< 0.85 U
Vinyl Chloride	2	µg/L	< 1.0 U	< 1.0 U	< 5.0 U	< 0.90 U	< 1.0 U	< 2 U	< 1.0 U	< 1.0 U	< 0.90 U	< 1.0 U	< 2 U	< 1.0 U	< 200 U	< 0.90 U
Xylenes	5	µg/L	< 2.0 U	43	60	< 0.66 U	< 2.0 U	3.9	< 2.0 U	< 2.0 U	< 0.66 U	< 2.0 U	< 1 U	< 2.0 U	< 400 U	< 0.66 U
Pesticides (SW8081)																
Alachlor	NSL	µg/L	NA	NA	NA	NA	NA	< 0.19 U	NA	NA	NA	NA	< 0.19 U	NA	NA	NA
Aldrin	NSL	µg/L	< 0.046 U	< 0.47 U	< 0.51 U	< 0.081 U	< 0.020 U	< 0.047 U	< 0.24 U	< 0.049 U	< 0.0081 U	< 0.020 U	< 0.046 U	< 0.24 U	< 0.057 U	< 0.0081 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	NSL	µg/L	0.010 J	< 0.47 U	< 0.51 U	< 0.077 U	< 0.020 U	< 0.047 U	< 0.24 U	< 0.049 U	0.015 J	< 0.020 U	< 0.046 U	< 0.24 U	< 0.057 U	< 0.0077 U
Alpha Endosulfan	NSL	µg/L	< 0.046 U	< 0.47 U	< 0.51 U	< 0.11 U	< 0.020 U	< 0.047 U	< 0.24 U	< 0.049 U	< 0.011 U	< 0.020 U	< 0.046 U	< 0.24 U	< 0.057 U	< 0.011 U
Beta Bhc (Beta Hexachlorocyclohexane)	NSL	µg/L	< 0.046 U	< 0.47 U	< 0.51 U	< 0.25 U	< 0.020 U	< 0.047 U	< 0.24 U	< 0.049 U	< 0.025 U	< 0.020 U	< 0.046 U	< 0.24 U	< 0.057 U	< 0.025 U
Beta Endosulfan	NSL	µg/L	< 0.046 U	< 0.47 U	< 0.51 U	0.15 J	< 0.020 U	< 0.075 U	< 0.24 U	< 0.049 U	< 0.012 U	< 0.020 U	< 0.074 U	< 0.24 U	< 0.057 U	< 0.012 U
Chlordane	0.05	µg/L	NA	NA	NA	NA	NA	25	NA	NA	NA	NA	< 0.19 U	NA	NA	NA
Chlordane (Technical)	NSL	µg/L	NA	0.82	NA	NA	NA	NA	< 0.24 U	NA	NA	NA	NA	< 0.24 U	NA	NA
cis-Chlordane	NSL	µg/L	< 0.046 U	< 0.47 U	2.8	2	0.021	NA	< 0.24 U	< 0.049 U	< 0.015 U	< 0.020 U	NA	< 0.24 U	< 0.057 U	< 0.015 U
Delta BHC (Delta Hexachlorocyclohexane)	NSL	µg/L	< 0.046 U	< 0.47 U	< 0.51 U	0.11 J	< 0.020 U	< 0.047 U	< 0.24 U	< 0.049 U	0.016 J	< 0.020 U	< 0.046 U	< 0.24 U	< 0.057 U	0.010 J
Dieldrin	0.004	µg/L	< 0.046 U	< 0.47 U	< 0.51 U	< 0.098 U	< 0.020 U	< 0.0019 U	< 0.24 U	0.0097 J	< 0.0098 U	< 0.020 U	< 0.0019 U	< 0.24 U	< 0.057 U	< 0.0098 U
Endosulfan Sulfate	NSL	µg/L	0.026 J	< 0.47 U	< 0.51 U	< 0.16 U	< 0.020 U	< 0.075 U	< 0.24 U	< 0.049 U	< 0.016 U	< 0.020 U	< 0.074 U	< 0.24 U	< 0.057 U	< 0.016 U
Endrin	NSL	µg/L	< 0.046 U	< 0.47 U	< 0.51 U	< 0.14 U	< 0.020 U	< 0.075 U	< 0.24 U	< 0.049 U	< 0.014 U	< 0.020 U	< 0.074 U	< 0.24 U	< 0.057 U	< 0.014 U
Endrin Aldehyde	5	µg/L	< 0.046 U	< 0.47 U	< 0.51 U	< 0.16 U	< 0.020 U	< 0.075 U	< 0.24 U	< 0.049 U	< 0.016 U	< 0.020 U	< 0.074 U	< 0.24 U	< 0.057 U	< 0.016 U
Endrin Ketone	5	µg/L	< 0.046 U	< 0.47 U	< 0.51 U	< 0.12 U	< 0.020 U	< 0.075 U	< 0.24 U	< 0.049 U	< 0.012 U	< 0.020 U	< 0.074 U	< 0.24 U	< 0.057 U	< 0.012 U
Gamma Bhc (Lindane)	NSL	µg/L	< 0.046 U	< 0.47 U	< 0.51 U	< 0.080 U	< 0.020 U	< 0.028 U	< 0.24 U	< 0.049 U	0.011 J	< 0.020 U	< 0.028 U	< 0.24 U	< 0.057 U	< 0.0080 U
Heptachlor	0.04	µg/L	< 0.046 U	0.15 J	< 0.51 U	< 0.085 U	< 0.020 U	< 0.047 U	< 0.24 U	< 0.049 U	< 0.0085 U	< 0.020 U	< 0.046 U	< 0.24 U	< 0.057 U	< 0.0085 U
Heptachlor Epoxide	0.03	µg/L	< 0.046 U	< 0.47 U	0.11 J	< 0.074 U	< 0.020 U	< 0.047 U	< 0.24 U	< 0.049 U	< 0.0074 U	< 0.020 U	< 0.046 U	< 0.24 U	< 0.057 U	< 0.0074 U
Hexachlorobenzene	0.04	µg/L	NA	NA	NA	NA	NA	< 0.047 U	NA	NA	NA	NA	< 0.046 U	NA	NA	NA
Methoxychlor	35	µg/L	< 0.046 U	< 0.47 U	< 0.51 U	< 0.1										

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			GW-9 7/8/2014 GW-19-20140708	K-2 1/10/2012 K-2	K-2 10/14/2015 K-2-20151014	K-2 3/16/2017 K-2 031617	K-2 5/15/2019 K-2 051519-20190515	K-2 5/23/2023 518014-K-2	K-3 1/10/2012 K-3	K-3 10/14/2015 K-3-20151014	K-3 3/16/2017 K-3 031617	K-3 5/13/2019 K-3 051319-20190513	K-3 5/23/2023 518014-K-3	MW-15D 1/10/2012 MW-15D	MW-15D 10/14/2015 MW-15D-20151014	MW-15D 3/15/2017 MW-15D 031517
Analyte	NYSDEC AWQS ¹	Unit														
SVOCs (SW8270)																
1,2,4,5-Tetrachlorobenzene	NSL	µg/L	NA	NA	NA	NA	NA	<9.3 U	NA	NA	NA	NA	<9.3 U	NA	NA	NA
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	<0.20 U	NA	<0.19 U	NA	NA	<0.20 U	NA	<0.19 U	NA	NA	<0.20 U
2,4,5-Trichlorophenol	NSL	µg/L	<4.6 U	<4.7 U	<54 U	<0.48 U	<10 U	<9.3 U	<4.7 U	<5.1 U	<0.48 U	<10 U	<9.3 U	<4.7 U	<5.5 U	<0.48 U
2,4,6-Trichlorophenol	NSL	µg/L	<4.6 U	<4.7 U	<54 U	<0.61 U	<10 U	<9.3 U	<4.7 U	<5.1 U	<0.61 U	<10 U	<9.3 U	<4.7 U	<5.5 U	<0.61 U
2,4-Dichlorophenol	5	µg/L	<1.9 U	<4.7 U	<54 U	<0.51 U	<10 U	<9.3 U	<4.7 U	<5.1 U	<0.51 U	<10 U	<9.3 U	<4.7 U	<5.5 U	<0.51 U
2,4-Dimethylphenol	50	µg/L	<1.9 U	<4.7 U	<54 U	<0.50 U	<10 U	<9.3 U	<4.7 U	<5.1 U	<0.50 U	<10 U	<9.3 U	<4.7 U	<5.5 U	<0.50 U
2,4-Dinitrophenol	10	µg/L	<37 U	<9.4 U	<110 U	<2.2 U	<20 U	<19 UJ	<9.4 U	<10 U	<2.2 U	<20 U	<19 UJ	<9.4 U	<11 U	<2.2 U
2,4-Dinitrotoluene	5	µg/L	<4.6 U	<4.7 U	<54 U	<0.45 U	<2.0 U	<9.3 U	<4.7 U	<5.1 U	<0.45 U	<2.0 U	<9.3 U	<4.7 U	<5.5 U	<0.45 U
2,6-Dinitrotoluene	5	µg/L	<4.6 U	<4.7 U	<54 U	<0.40 U	<2.0 U	<9.3 U	<4.7 U	<5.1 U	<0.40 U	<2.0 U	<9.3 U	<4.7 U	<5.5 U	<0.40 U
2-Chloronaphthalene	10	µg/L	<0.93 U	<4.7 U	<54 U	<0.46 U	<10 U	<9.3 U	<4.7 U	<5.1 U	<0.46 U	<10 U	<9.3 U	<4.7 U	<5.5 U	<0.46 U
2-Chlorophenol	1	µg/L	<0.93 U	<4.7 U	<54 U	<0.53 U	<10 U	<9.3 U	<4.7 U	<5.1 U	<0.53 U	<10 U	<9.3 U	<4.7 U	<5.5 U	<0.53 U
2-Methylnaphthalene	NSL	µg/L	<0.19 U	6.6	<54 U	<0.60 U	<10 U	<4.6 U	<4.7 U	<5.1 U	<0.60 U	<10 U	<4.7 U	<4.7 U	<5.5 U	<0.60 U
2-Methylphenol (O-Cresol)	NSL	µg/L	<0.93 U	<4.7 U	<54 U	<0.40 U	<10 U	<9.3 U	<4.7 U	<5.1 U	<0.40 U	<10 U	<9.3 U	<4.7 U	<5.5 U	<0.40 U
2-Nitroaniline	5	µg/L	<1.9 U	<9.4 U	<110 U	<0.42 U	<10 U	<9.3 U	<9.4 U	<10 U	<0.42 U	<10 U	<9.3 U	<9.4 U	<11 U	<0.42 U
2-Nitrophenol	NSL	µg/L	<1.9 U	<4.7 U	<54 U	<0.48 U	<10 U	<9.3 U	<4.7 U	<5.1 U	<0.48 U	<10 U	<9.3 U	<4.7 U	<5.5 U	<0.48 U
3- And 4- Methylphenol (Total)	NSL	µg/L	NA	NA	NA	NA	NA	<9.3 U	NA	NA	NA	NA	<9.3 U	NA	NA	NA
3,3'-Dichlorobenzidine	5	µg/L	<4.6 U	<4.7 U	<54 U	<0.40 U	<10 U	<9.3 U	<4.7 U	<5.1 U	<0.40 U	<10 U	<9.3 U	<4.7 U	<5.5 U	<0.40 U
3-Nitroaniline	5	µg/L	<1.9 U	<9.4 U	<110 U	<0.48 U	<10 U	<9.3 UJ	<9.4 U	<10 U	<0.48 U	<10 U	<9.3 UJ	<9.4 U	<11 U	<0.48 U
4,6-Dinitro-2-Methylphenol	NSL	µg/L	<4.6 U	<9.4 U	<110 U	<2.2 U	<20 U	<19 UJ	<9.4 U	<10 U	<2.2 U	<20 U	<19 UJ	<9.4 U	<11 U	<2.2 U
4-Bromophenyl Phenyl Ether	NSL	µg/L	<1.9 U	<4.7 U	<54 U	<0.45 U	<10 U	<9.3 U	<4.7 U	<5.1 U	<0.45 U	<10 U	<9.3 U	<4.7 U	<5.5 U	<0.45 U
4-Chloro-3-Methylphenol	NSL	µg/L	<1.9 U	<4.7 U	<54 U	<0.45 U	<10 U	<9.3 U	<4.7 U	<5.1 U	<0.45 U	<10 U	<9.3 U	<4.7 U	<5.5 U	<0.45 U
4-Chloroaniline	5	µg/L	<1.9 U	<4.7 U	<54 U	<0.59 U	<10 U	<9.3 U	<4.7 U	<5.1 U	<0.59 U	<10 U	<9.3 U	<4.7 U	<5.5 U	<0.59 U
4-Chlorophenyl Phenyl Ether	NSL	µg/L	<1.9 U	<4.7 U	<54 U	<0.35 U	<10 U	<9.3 U	<4.7 U	<5.1 U	<0.35 U	<10 U	<9.3 U	<4.7 U	<5.5 U	<0.35 U
4-Methylphenol (P-Cresol)	NSL	µg/L	NA	4.7 J	<110 U	<0.36 U	<10 U	NA	<9.4 U	<10 U	<0.36 U	<10 U	NA	<9.4 U	<11 U	<0.36 U
4-Nitroaniline	5	µg/L	<1.9 U	<9.4 U	<110 U	<0.25 U	<10 U	<9.3 UJ	<9.4 U	<10 U	<0.25 U	<10 U	<9.3 UJ	<9.4 U	<11 U	<0.25 U
4-Nitrophenol	NSL	µg/L	<4.6 U	<9.4 U	<110 U	<1.5 U	<20 U	<19 U	<9.4 U	<10 U	<1.5 U	<20 U	<19 U	<9.4 U	<11 U	<1.5 U
Acenaphthene	20	µg/L	<0.19 U	<4.7 U	<54 U	<0.41 U	<10 U	<4.6 U	<4.7 U	<5.1 U	<0.41 U	<10 U	<4.7 U	<4.7 U	<5.5 U	<0.41 U
Acenaphthylene	NSL	µg/L	<0.19 U	<4.7 U	<54 U	<0.38 U	<10 U	<4.6 U	<4.7 U	<5.1 U	<0.38 U	<10 U	<4.7 U	<4.7 U	<5.5 U	<0.38 U
Acetophenone	NSL	µg/L	2	26	<54 U	<0.54 U	<10 U	<9.3 U	<4.7 U	<5.1 U	<0.54 U	<10 U	<9.3 U	<4.7 U	<5.5 U	<0.54 U
Anthracene	50	µg/L	<0.19 U	<4.7 U	<54 U	<0.28 U	<10 U	<4.6 U	<4.7 U	<5.1 U	<0.28 U	<10 U	<4.7 U	<4.7 U	<5.5 U	<0.28 U
Atrazine	NSL	µg/L	<0.93 U	<4.7 U	<54 U	<0.46 U	<2.0 U	<19 U	<4.7 U	<5.1 U	<0.46 U	<2.0 U	<19 U	<4.7 U	<5.5 U	<0.46 U
Benzaldehyde	NSL	µg/L	<0.93 U	<4.7 U	<54 U	<0.27 U	<10 U	<9.3 UJ	<4.7 U	<5.1 U	<0.27 U	<10 U	<9.3 UJ	<4.7 U	1.4 J	<0.27 U
Benzo(A)Anthracene	0.002	µg/L	<0.19 U	<4.7 U	<54 U	<0.36 U	<1.0 U	<4.6 U	<4.7 U	<5.1 U	<0.36 U	<1.0 U	<4.7 U	<4.7 U	<5.5 U	<0.36 U
Benzo(A)Pyrene	NSL	µg/L	<0.19 U	<4.7 U	<54 U	<0.47 U	<1.0 U	<4.6 U	<4.7 U	<5.1 U	<0.47 U	<1.0 U	<4.7 U	<4.7 U	<5.5 U	<0.47 U
Benzo(B)Fluoranthene	0.002	µg/L	<0.19 U	<4.7 U	<54 U	<0.34 U	<2.0 U	<4.6 U	<4.7 U	<5.1 U	<0.34 U	<2.0 U	<4.7 U	<4.7 U	<5.5 U	<0.34 U
Benzo(G,H,I)Perylene	NSL	µg/L	<0.19 U	<4.7 U	<54 U	<0.35 U	<10 U	<4.6 U	<4.7 U	<5.1 U	<0.35 U	<10 U	<4.7 U	<4.7 U	<5.5 U	<0.35 U
Benzo(K)Fluoranthene	0.002	µg/L	<0.19 U	<4.7 U	<54 U	<0.73 U	<1.0 U	<4.6 U	<4.7 U	<5.1 U	<0.73 U	<1.0 U	<4.7 U	<4.7 U	<5.5 U	<0.73 U
Benzyl Butyl Phthalate	50	µg/L	0.39 J	<4.7 U	<54 U	<1.0 U	<10 U	<9.3 UJ	<4.7 U	<5.1 U	<1.0 U	<10 U	<9.3 UJ	<4.7 U	<5.5 U	<1.0 U
Biphenyl (Diphenyl or 1,1'-Biphenyl)	5	µg/L	<0.93 U	0.79 J	<54 U	<0.65 U	<10 U	<19 U	<4.7 U	<5.1 U	<0.65 U	<10 U	<19 U	<4.7 U	<5.5 U	<0.65 U
Bis(2-Chloroethoxy) Methane	5	µg/L	<0.93 U	<4.7 U	<54 U	<0.35 U	<10 U	<9.3 U	<4.7 U	<5.1 U	<0.35 U	<10 U	<9.3 U	<4.7 U	<5.5 U	<0.35 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	µg/L	<0.93 U	<4.7 U	<54 U	<0.40 U	<1.0 U	<9.3 U	<4.7 U	<5.1 U	<0.40 U	<1.0 U	<9.3 U	<4.7 U	<5.5 U	<0.40 U
Bis(2-Chloroisopropyl) Ether	5	µg/L	<0.93 U	<4.7 U	<54 U	<0.52 U	<10 U	<9.3 U	<4.7 U	<5.1 U	<0.52 U	<10 U	<9.3 U	<4.7 U	<5.5 U	<0.52 U
Bis(2-Ethylhexyl) Phthalate	5	µg/L	20	<4.7 U	<54 U	<2.2 U	<2.0 U	<9.3 UJ	<4.7 U	<5.1 U	<2.2 U	<2.0 U	<9.3 UJ	<4.7 U	<5.5 U	<2.2 U
Caprolactam	NSL	µg/L	1.7 J	<4.7 U	<54 U	<2.2 U	<10 U	<9.3 UJ	<4.7 U	<5.1 U	<2.2 U	<10 U	<9.3 UJ	<4.7 U	<5.5 U	<2.2 U
Carbazole	NSL	µg/L	<0.93 U	<4.7 U	<54 U	<0.30 U	<10 U	<9.3 U	<4.7 U	<5.1 U	<0.30 U	<10 U	<9.3 U	<4.7 U	<5.5 U	<0.30 U
Chrysene	0.002	µg/L	<0.19 U	<4.7 U	<54 U	<0.33 U	<2.0 U	<4.6 U	<4.7 U	<5.1 U	<0.33 U	<2.0 U	<4.7 U	<4.7 U	<5.5 U	<0.33 U
Dibenz(A,H)Anthracene	NSL	µg/L	<0.19 U	<4.7 U	<54 U	<0.42 U	<1.0 U	<4.6 U	<4.7 U	<5.1 U	<0.42 U	<1.0 U	<4.7 U	<4.7 U	<5.5 U	<0.42 U
Dibenzofuran	NSL	µg/L	<0.93 U	<9.4 U	<110 U	<0.51 U	<10 U	<4.6 U	<9.4 U	<10 U	<0.51 U	<10 U	<4.7 U	<9.4 U	<11 U	<0.51 U
Diethyl Phthalate	50	µg/L	0.50 J	<4.7 U	<54 U	<0.22 U	<10 U	<9.3 U	<4.7 U	<5.1 U	<0.22 U	<10 U	<9.3 U	<4.7 U	<5.5 U	<0.22 U
Dimethyl Phthalate	50	µg/L	<0.93 U	<4.7 U	<54 U	<0.36 U	<10 U	<9.3 U	<4.7 U	<5.1 U	<0.36 U	<10 U	<9.3 U	<4.7 U	<5.5 U	<0.36 U
Di-N-Butyl Phthalate	50	µg/L	4	<4.7 U	<54 U	<0.31 U	<10 U	<9.3 U	<4.7 U	<5.1 U	<0.31 U	<10 U	<9.3 U	<4.7 U	<5.5 U	<0.31 U
Di-N-Octylphthalate	50	µg/L	<0.93 U	<4.7 U	<54 U	<0.47 U	<10 U	<9.3 UJ	<4.7 U	<5.1 U	<0.47 U	<10 U	<9.3 UJ	<4.7 U	1.3 J	<0.47 U
Fluoranthene	50	µg/L	<0.19 U	<4.7 U	<54 U	<0.40 U	<10 U	<4.6 U	<4							

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			MW-15D 5/15/2019 MW-15D 051519-20190515	MW-15D 5/24/2023 518014-MW-15D	MW-15S 1/10/2012 MW-15S	MW-15S 10/14/2015 MW-15S-20151014	MW-15S 3/15/2017 MW-15S 031517	MW-15S 5/13/2019 MW-15S 051319-20190513	MW-15S 5/23/2023 518014-MW-15S	MW-16D 10/14/2015 MW-16D-20151014	MW-16D 10/15/2015 MW-16D-20151015	MW-16D 3/17/2017 MW-16D 031717	MW-16D 5/15/2019 MW-16D 051519-20190515	MW-16D 5/24/2023 518014-MW-16D
Analyte	NYSDEC AWQS ¹	Unit												
PFAS (E537/E1633)														
11-Chloroicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NSL	ng/L	NA	< 3.7 U	NA	NA	NA	NA	< 3.6 U	NA	NA	NA	NA	< 3.6 U
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	< 17 U	< 3.7 U	NA	NA	NA	< 85 U	< 3.6 U	NA	NA	NA	< 17 U	< 3.6 U
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	< 3.7 U	NA	NA	NA	NA	< 3.6 U	NA	NA	NA	NA	< 3.6 U
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	< 17 U	< 3.7 U	NA	NA	NA	< 85 U	< 3.6 U	NA	NA	NA	< 17 U	2.5 J
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	< 46 U	NA	NA	NA	NA	< 45 U	NA	NA	NA	NA	< 45 U
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	< 46 U	NA	NA	NA	NA	< 45 U	NA	NA	NA	NA	< 45 U
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	< 9.2 U	NA	NA	NA	NA	< 9.1 U	NA	NA	NA	NA	< 9 U
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	< 3.7 U	NA	NA	NA	NA	< 3.6 U	NA	NA	NA	NA	< 3.6 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	NA	< 3.7 U	NA	NA	NA	NA	< 3.6 U	NA	NA	NA	NA	< 3.6 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	< 3.7 U	NA	NA	NA	NA	< 3.6 U	NA	NA	NA	NA	< 3.6 U
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	NA	< 0.92 U	NA	NA	NA	NA	< 0.91 U	NA	NA	NA	NA	< 0.9 U
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	< 17 U	< 0.92 U	NA	NA	NA	16 J	4.1	NA	NA	NA	< 17 UJ	< 0.9 U
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	< 9.2 U	NA	NA	NA	NA	< 9.1 U	NA	NA	NA	NA	< 9 U
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NSL	ng/L	NA	< 0.92 U	NA	NA	NA	NA	< 0.91 U	NA	NA	NA	NA	< 0.9 U
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NSL	ng/L	< 17 UJ	< 0.92 U	NA	NA	NA	< 85 UJ	< 0.91 U	NA	NA	NA	< 17 UJ	< 0.9 U
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NSL	ng/L	NA	< 9.2 U	NA	NA	NA	NA	< 9.1 U	NA	NA	NA	NA	< 9 U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NSL	ng/L	NA	< 1.8 U	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	NA	< 1.8 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NSL	ng/L	NA	< 1.8 U	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	NA	< 1.8 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	< 1.8 U	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	NA	< 1.8 UJ
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	< 1.8 U	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	NA	< 1.8 U
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	< 1.7 U	< 0.92 U	NA	NA	1.8 J	< 8.5 U	1.5	NA	NA	< 0.92 U	< 1.7 UJ	0.57 J
Perfluorobutanoic Acid	NSL	ng/L	1.8	1.7 R	NA	NA	NA	< 8.5 UJ	1.7 J	NA	NA	NA	< 1.7 UJ	< 3.6 U
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	< 1.7 U	< 0.92 U	NA	NA	NA	< 8.5 U	< 0.91 U	NA	NA	NA	< 1.7 U	< 0.9 U
Perfluorodecanoic acid (PFDA)	NSL	ng/L	< 1.7 U	< 0.92 U	NA	NA	NA	< 8.5 U	0.69 J	NA	NA	NA	< 1.7 U	< 0.9 U
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	< 0.92 U	NA	NA	NA	NA	< 0.91 U	NA	NA	NA	NA	< 0.9 U
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	< 1.7 U	< 0.92 U	NA	NA	NA	< 8.5 U	< 0.91 U	NA	NA	NA	< 1.7 UJ	< 0.9 U
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	< 1.7 U	< 0.92 U	NA	NA	NA	< 8.5 U	< 0.91 U	NA	NA	NA	< 1.7 U	< 0.9 U
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	< 1.7 U	< 0.92 U	NA	NA	4.6	< 8.5 U	1.3	NA	NA	< 0.80 U	1.0 J	0.59 J
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	< 1.7 UJ	< 0.92 U	NA	NA	2.9	< 8.5 U	0.90 J	NA	NA	< 0.87 U	< 1.7 UJ	0.33 J
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	< 1.7 U	< 0.92 U	NA	NA	NA	< 8.5 U	1	NA	NA	NA	0.94 J	0.81 J
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	NA	< 0.92 U	NA	NA	NA	NA	< 0.91 U	NA	NA	NA	NA	< 0.9 U
Perfluorononanoic acid (PFNA)	NSL	ng/L	< 1.7 U	< 0.92 U	NA	NA	0.75 J	< 8.5 U	0.68 J	NA	NA	< 0.65 U	0.48 J	< 0.9 U
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	< 1.7 U	1.2	NA	NA	NA	< 8.5 U	0.56 J	NA	NA	NA	< 1.7 U	< 0.9 U
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	< 1.7 UJ	< 0.92 U	NA	NA	140	26	61	NA	NA	< 1.3 U	< 1.7 UJ	0.77 J
Perfluorooctanoic acid (PFOA)	6.7	ng/L	2.1	< 0.92 U	NA	NA	11	5.8 J	5.2	NA	NA	3.8	6.1 J	2.9
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	< 0.92 U	NA	NA	NA	NA	0.26 J	NA	NA	NA	NA	< 0.9 U
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	< 1.7 U	< 1.8 U	NA	NA	NA	2.8 J	< 1.8 U	NA	NA	NA	0.60 J	< 1.8 U
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	< 1.7 UJ	< 0.92 U	NA	NA	NA	< 8.5 U	< 0.91 U	NA	NA	NA	< 1.7 UJ	< 0.9 U
Perfluorotridecanoic Acid (PFTriA/PFTriDA)	NSL	ng/L	< 1.7 U	< 0.92 U	NA	NA	NA	< 8.5 U	< 0.91 U	NA	NA	NA	< 1.7 U	< 0.9 U
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	< 1.7 U	< 0.92 U	NA	NA	NA	< 8.5 U	< 0.91 U	NA	NA	NA	< 1.7 U	< 0.9 U
VOCs (SW8260)														
1,1,1,2-Tetrachloroethane	5	µg/L	NA	NA	NA	< 5.0 U	< 0.35 U	NA	NA	< 1.0 U	NA	< 0.35 U	NA	NA
1,1,1-Trichloroethane (TCA)	5	µg/L	< 1.0 U	< 1 U	< 1.0 U	< 5.0 U	< 0.82 U	< 1.0 U	< 1 U	< 1.0 U	NA	< 0.82 U	< 1.0 U	< 1 U
1,1,2,2-Tetrachloroethane	5	µg/L	< 1.0 U	< 0.5 U	< 1.0 U	< 5.0 U	< 0.21 U	< 1.0 U	< 0.5 U	< 1.0 U	NA	< 0.21 U	< 1.0 U	< 0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 5.0 U	< 0.31 U	< 1.0 U	< 1 U	< 1.0 U	NA	< 0.31 U	< 1.0 U	< 1 U
1,1,2-Trichloroethane	1	µg/L	< 1.0 U	< 1 U	< 1.0 U	< 5.0 U	< 0.23 U	< 1.0 U	< 1 U	< 1.0 U	NA	< 0.23 U	< 1.0 U	< 1 U
1,1-Dichloroethane	5	µg/L	< 1.0 U	< 1 U	< 1.0 U	< 5.0 U	< 0.38 U	< 1.0 U	< 1 U	< 1.0 U	NA	< 0.38 U	< 1.0 U	< 1 U
1,1-Dichloroethene	5	µg/L	< 1.0 U	< 1 U	< 1.0 U	< 5.0 U	< 0.29 U	< 1.0 U	< 1 U	< 1.0 U	NA	< 0.29 U	< 1.0 U	< 1 U
1,1-Dichloropropene	5	µg/L	NA	NA	NA	< 5.0 U	< 0.72 U	NA	NA	< 1.0 U	NA	< 0.72 U	NA	NA
1,2,3-Trichlorobenzene	5	µg/L	NA	< 5 U	NA	< 5.0 U	< 0.41 U	NA	< 5 U	< 1.0 U	NA	< 0.41 U	NA	< 5 U
1,2,3-Trichloropropane	0.04	µg/L	NA	NA	NA	< 5.0 U	< 0.89 U	NA	NA	< 1.0 U	NA	< 0.89 U	NA	NA
1,2,4-Trichlorobenzene	5	µg/L	< 1.0 U	< 1 U	< 1.0 U	< 5.0 U	< 0.41 U	< 1.0 U	< 1 U	< 1.0 U	NA	< 0.41 U	< 1.0 U	< 1 U
1,2,4-Trimethylbenzene	NSL	µg/L	< 1.0 U	NA	NA	< 5.0 U	< 0.75 U	< 1.0 U	NA	< 1.0 U	NA	< 0.75 U	< 1.0 U	NA
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 1.0 U	< 5 U	< 1.0 U	< 5.0 U	< 0.39 U	< 1.0 U	< 5 U	< 1.0 U	NA	< 0.39 U	< 1.0 U	< 5 U
1,2-Dibromoethane (Ethylene Dibromide)	NSL	µg/L	< 1.0 U	< 0.5 U	< 1.0 U	< 5.0 U	< 0.73 U	< 1.0 U	< 0.5 U	< 1.0 U	NA	< 0.73 U	< 1.0 U	< 0.5 U
1,2-Dichlorobenzene	3	µg/L	< 1.0 U	< 1 U	< 1.0 U	< 5.0 U	< 0.79 U	< 1.0 U	< 1 U	< 1.0 U	NA	< 0.79 U	< 1.0 U	< 1 U
1,2-Dichloroethane	0.6	µg/L	< 1.0 U	< 1 U	< 1.0 U	< 5.0 U	< 0.21 U	< 1.0 U	< 1 U	< 1.0 U	NA	< 0.21 U	< 1.0 U	< 1 U
1,2-Dichloropropane	1	µg/L	< 1.0 U	< 1 U	< 1.0 U	< 5.0 U	< 0.72 U	< 1.0 U	< 1 U	< 1.0 U	NA	< 0.72 U	< 1.0 U	< 1 U
1,3,5-Trimethylbenzene (Mesitylene)	NSL	µg/L	< 1.0 U	NA	NA	< 5.0 U	< 0.77 U	< 1.0 U	NA	< 1.0 U	NA	< 0.77 U	< 1.0 U	NA
1,3-Dichlorobenzene	3	µg/L	< 1.0 U	< 1 U	< 1.0 U	< 5.0 U	< 0.78 U	< 1.0 U	< 1 U	< 1.0 U	NA	< 0.78 U	< 1.0 U	< 1 U
1,3-Dichloropropane	5	µg/L	NA	NA	NA	< 5.0 U	< 0.75 U	NA	NA	< 1.0 U	NA	< 0.75 U	NA	NA
1,4-Dichlorobenzene	3	µg/L	< 1.0 U	< 1 U	< 1.0 U	< 5.0 U	< 0.84 U	< 1.0 U	< 1 U	< 1.0 U	NA	< 0.84 U	< 1.0 U	< 1 U
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	NA	< 0.20 U	NA	NA	NA	NA	< 0.20 U	NA	NA
2,2-Dichloropropane	NSL	µg/L	NA	NA	NA	< 5.0 U	< 0.40 U	NA	NA	< 1.0 U	NA	< 0.40 U	NA	NA
2-Chlorotoluene	NSL	µg/L	NA	NA	NA	< 5.0 U	< 0.86 U	NA	NA	< 1.0 U	NA	< 0.86 U	NA	NA
2-Hexanone	50	µg/L	< 5.0 U	< 10 U	< 5.0 U	< 25 U	< 1.2 U	< 5.0 U	< 10 U	< 5.0 U	NA	< 1.2 U	< 5.0 U	< 10 U
4-Chlorotoluene	NSL	µg/L	NA	NA	NA	< 5.0 U	< 0.84 U	NA	NA	< 1.0 U	NA	< 0.84 U	NA	NA
Acetone	50	µg/L	< 5.0 U	< 10 U	< 10 U	< 50 U	4.5 J	< 5.0 U	< 50 U	< 10 U	NA	< 3.0 U	< 5.0 U	< 50 U
Benzene	1	µg/L	< 1.0 U	< 1 U	< 1.0 U	< 5.0 U	< 0.41 U	< 1.0 U	< 1 U	< 1.0 U	NA	< 0.41 U	< 1.0 U	< 1 U
Bromobenzene	NSL	µg/L	NA	NA	NA	< 5.0 U	< 0.80 U	NA	NA	< 1.0 U	NA	< 0.80 U	NA	NA
Bromochloromethane	5	µg/L	NA	< 1 U	NA	< 5.0 U	< 0.87 U	NA	< 1 U	< 1.0 U	NA	< 0.87 U	NA	< 1 U
Bromodichloromethane	50	µg/L	< 1.0 U	< 0.5 U	< 1.0 U	< 5.0 U	< 0.39 U	< 1.0 U	< 0.5 U	< 1.0 U	NA	< 0.39 U	< 1.0 U	< 0.5 U
Bromofom	50	µg/L	< 1.0 U	< 1 U	< 1.0 U	< 5.0 U	< 0.26 U	< 1.0 U	< 1 U	< 1.0 U	NA	< 0.26 U	< 1.0 U	< 1 U

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).
µg/L = Microgram(s) per liter
J = Concentration is estimated
J+ = Concentration is estimated, biased high
NA = Not analyzed
ng/L = Nanogram(s) per liter
NSL - No screening level available
U = Analyte not detected
Concentrations exceeding the screening level are shaded gray

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

		Location ID	MW-15D	MW-15D	MW-15S	MW-15S	MW-15S	MW-15S	MW-15S	MW-16D	MW-16D	MW-16D	MW-16D
		Sample Date	5/15/2019	5/24/2023	1/10/2012	10/14/2015	3/15/2017	5/13/2019	5/23/2023	10/14/2015	10/15/2015	3/17/2017	5/15/2019
		Sample Name	MW-15D 051519-20190515	518014-MW-15D	MW-15S	MW-15S-20151014	MW-15S 031517	MW-15S 051319-20190513	518014-MW-15S	MW-16D-20151014	MW-16D-20151015	MW-16D 031717	MW-16D 051519-20190515
		Parent Sample ID											
Analyte													
	NYSDEC AWQS ¹	Unit											
Bromomethane	5	µg/L	< 1.0 U	< 2 U	< 1.0 U	< 5.0 U	< 0.69 U	< 1.0 U	< 2 U	< 1.0 U	NA	< 0.69 U	< 1.0 U
Carbon Disulfide	60	µg/L	< 1.0 U	< 5 U	< 1.0 U	< 5.0 U	0.20 J	< 1.0 U	< 5 U	< 1.0 U	NA	< 0.19 U	< 1.0 U
Carbon Tetrachloride	5	µg/L	< 1.0 U	< 5 U	< 1.0 U	< 5.0 U	< 0.27 U	< 1.0 U	< 5 U	< 1.0 U	NA	< 0.27 U	< 1.0 U
Chlorobenzene	5	µg/L	< 1.0 U	< 1 U	< 1.0 U	< 5.0 U	< 0.75 U	< 1.0 U	< 1 U	< 1.0 U	NA	< 0.75 U	< 1.0 U
Chloroethane	5	µg/L	< 1.0 U	< 2 U	< 1.0 U	< 5.0 U	< 0.32 U	< 1.0 U	< 2 U	< 1.0 U	NA	< 0.32 U	< 1.0 U
Chloroform	7	µg/L	< 1.0 U	< 2 U	< 1.0 U	< 5.0 U	< 0.34 U	< 1.0 U	< 2 U	< 1.0 U	NA	< 0.34 U	< 1.0 U
Chloromethane (Methyl Chloride)	NSL	µg/L	< 1.0 U	< 2 U	< 1.0 U	< 5.0 U	< 0.35 U	< 1.0 U	< 2 U	< 1.0 U	NA	< 0.35 U	< 1.0 U
Cis-1,2-Dichloroethylene	5	µg/L	< 1.0 U	< 1 U	< 1.0 U	< 5.0 U	< 0.81 U	< 1.0 U	< 1 U	< 1.0 U	NA	< 0.81 U	< 1.0 U
Cis-1,3-Dichloropropene	0.4	µg/L	< 1.0 U	< 0.5 U	< 1.0 U	< 5.0 U	< 0.36 U	< 1.0 U	< 0.5 U	< 1.0 U	NA	< 0.36 U	< 1.0 U
Cyclohexane	NSL	µg/L	< 1.0 U	< 5 U	< 1.0 U	< 5.0 U	< 0.18 U	< 1.0 U	< 5 U	< 1.0 U	NA	< 0.18 U	< 1.0 U
Cymene	NSL	µg/L	< 1.0 U	NA	NA	2.6 J	0.51 J	< 1.0 U	NA	< 1.0 U	NA	< 0.31 U	< 1.0 U
Dibromochloromethane	50	µg/L	< 1.0 U	< 0.5 U	< 1.0 U	< 5.0 U	< 0.32 U	< 1.0 U	< 0.5 U	< 1.0 U	NA	< 0.32 U	< 1.0 U
Dibromomethane	5	µg/L	NA	NA	NA	< 5.0 U	< 0.41 U	NA	NA	< 1.0 U	NA	< 0.41 U	NA
Dichlorodifluoromethane	5	µg/L	< 1.0 U	< 2 U	< 1.0 U	< 5.0 U	< 0.68 U	< 1.0 U	< 2 U	< 1.0 U	NA	< 0.68 U	< 1.0 U
Ethylbenzene	5	µg/L	< 1.0 U	< 1 U	< 1.0 U	< 5.0 U	< 0.74 U	< 1.0 U	< 1 U	< 1.0 U	NA	< 0.74 U	< 1.0 U
Hexachlorobutadiene	0.5	µg/L	NA	NA	NA	< 5.0 U	< 0.28 U	NA	NA	< 1.0 U	NA	< 0.28 U	NA
Iodomethane (Methyl Iodide)	NSL	µg/L	NA	NA	NA	< 5.0 U	< 0.30 U	NA	NA	< 1.0 U	NA	< 0.30 U	NA
Isopropylbenzene (Cumene)	5	µg/L	< 1.0 U	< 1 U	< 1.0 U	< 5.0 U	< 0.79 U	< 1.0 U	< 1 U	< 1.0 U	NA	< 0.79 U	< 1.0 U
Methyl Acetate	NSL	µg/L	< 5.0 U	< 1 U	< 1.0 U	< 13 U	< 1.3 U	< 5.0 U	< 1 U	< 5 U	NA	< 1.3 U	< 5.0 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	< 5.0 U	< 20 U	< 10 U	< 50 U	< 1.3 U	< 5.0 U	< 20 U	1.4 J	NA	< 1.3 U	< 5.0 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 5.0 U	< 10 U	< 5.0 U	< 25 U	< 2.1 U	< 5.0 U	< 10 U	< 5.0 U	NA	< 2.1 U	< 5.0 U
Methylcyclohexane	NSL	µg/L	< 1.0 U	< 1 U	2.6	< 5.0 U	0.47 J	< 1.0 U	< 1 U	< 1.0 U	NA	< 0.16 U	< 1.0 U
Methylene Chloride	5	µg/L	< 1.0 U	< 5 U	< 1.0 U	< 5.0 U	< 0.44 U	< 1.0 U	< 5 U	< 1.0 U	NA	< 0.44 U	< 1.0 U
M-P-Xylene	NSL	µg/L	< 1.0 U	NA	< 2.0 U	< 10 U	< 0.66 U	< 1.0 U	NA	< 2.0 U	NA	< 0.66 U	< 1.0 U
Naphthalene	10	µg/L	< 1.0 U	NA	NA	< 5.0 U	< 0.43 U	< 1.0 U	NA	< 1.0 U	NA	< 0.43 U	< 1.0 U
N-Butylbenzene	5	µg/L	< 1.0 U	NA	NA	< 5.0 U	< 0.64 U	< 1.0 U	NA	< 1.0 U	NA	< 0.64 U	< 1.0 U
N-Propylbenzene	NSL	µg/L	< 1.0 U	NA	NA	< 5.0 U	< 0.69 U	< 1.0 U	NA	< 1.0 U	NA	< 0.69 U	< 1.0 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	< 1.0 U	NA	1	< 5.0 U	< 0.76 U	< 1.0 U	NA	< 1.0 U	NA	< 0.76 U	< 1.0 U
Sec-Butylbenzene	5	µg/L	< 1.0 U	NA	NA	< 5.0 U	< 0.75 U	< 1.0 U	NA	< 1.0 U	NA	< 0.75 U	< 1.0 U
Styrene	5	µg/L	< 1.0 U	< 1 U	< 1.0 U	< 5.0 U	< 0.73 U	< 1.0 U	< 1 U	< 1.0 U	NA	< 0.73 U	< 1.0 U
T-Butylbenzene	5	µg/L	< 1.0 U	NA	NA	< 5.0 U	< 0.81 U	< 1.0 U	NA	< 1.0 U	NA	< 0.81 U	< 1.0 U
Tert-Butyl Methyl Ether	10	µg/L	< 1.0 U	< 1 U	< 1.0 U	< 5.0 U	< 0.16 U	< 1.0 U	< 1 U	< 1.0 U	NA	< 0.16 U	< 1.0 U
Tetrachloroethylene (PCE)	5	µg/L	< 1.0 U	< 1 U	0.90 J	< 5.0 U	< 0.36 U	< 1.0 U	< 1 U	< 1.0 U	NA	< 0.36 U	< 1.0 U
Toluene	5	µg/L	< 1.0 U	< 1 U	2	< 5.0 U	< 0.51 U	< 1.0 U	< 1 U	< 1.0 U	NA	< 0.51 U	< 1.0 U
Trans-1,2-Dichloroethene	5	µg/L	< 1.0 U	< 1 U	< 1.0 U	< 5.0 U	< 0.90 U	< 1.0 U	< 1 U	< 1.0 U	NA	< 0.90 U	< 1.0 U
Trans-1,3-Dichloropropene	0.4	µg/L	< 1.0 U	< 0.5 U	< 1.0 U	< 5.0 U	< 0.37 U	< 1.0 U	< 0.5 U	< 1.0 U	NA	< 0.37 U	< 1.0 U
Trichloroethylene (TCE)	5	µg/L	< 1.0 U	< 1 U	< 1.0 U	< 5.0 U	< 0.46 U	< 1.0 U	< 1 U	< 1.0 U	NA	< 0.46 U	< 1.0 U
Trichlorofluoromethane	5	µg/L	< 1.0 U	< 2 U	< 1.0 U	< 5.0 U	< 0.88 U	< 1.0 U	< 2 U	< 1.0 U	NA	< 0.88 U	< 1.0 U
Vinyl Acetate	NSL	µg/L	NA	NA	NA	< 25 U	< 0.85 U	NA	NA	< 5.0 U	NA	< 0.85 U	NA
Vinyl Chloride	2	µg/L	< 1.0 U	< 2 U	< 1.0 U	< 5.0 U	< 0.90 U	< 1.0 U	< 2 U	< 1.0 U	NA	< 0.90 U	< 1.0 U
Xylenes	5	µg/L	< 2.0 U	< 1 U	1.0 J	< 10 U	< 0.66 U	< 2.0 U	< 1 U	< 2.0 U	NA	< 0.66 U	< 2.0 U
Pesticides (SW8081)													
Alachlor	NSL	µg/L	NA	< 0.19 U	NA	NA	NA	NA	< 0.18 U	NA	NA	NA	NA
Aldrin	NSL	µg/L	< 0.020 U	< 0.048 U	< 0.24 U	< 0.055 U	< 0.0081 U	< 0.020 U	< 0.045 U	NA	< 0.050 U	< 0.0081 U	< 0.020 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	NSL	µg/L	< 0.020 U	< 0.048 U	< 0.24 U	0.0089 J	< 0.0077 U	< 0.020 U	< 0.045 U	NA	< 0.050 U	< 0.0077 U	< 0.020 U
Alpha Endosulfan	NSL	µg/L	< 0.020 U	< 0.048 U	< 0.24 U	< 0.055 U	< 0.011 U	< 0.020 U	< 0.045 U	NA	< 0.050 U	< 0.011 U	< 0.020 U
Beta Bhc (Beta Hexachlorocyclohexane)	NSL	µg/L	< 0.020 U	< 0.048 U	< 0.24 U	< 0.055 U	< 0.025 U	< 0.020 U	< 0.045 U	NA	< 0.050 U	< 0.025 U	< 0.020 U
Beta Endosulfan	NSL	µg/L	< 0.020 U	< 0.076 U	< 0.24 U	< 0.055 U	< 0.012 U	< 0.020 U	< 0.072 U	NA	< 0.050 U	< 0.012 U	< 0.020 U
Chlordane	0.05	µg/L	NA	< 0.19 U	NA	NA	NA	NA	4.7	NA	NA	NA	NA
Chlordane (Technical)	NSL	µg/L	NA	NA	0.22 J	NA	NA	NA	NA	NA	NA	NA	NA
cis-Chlordane	NSL	µg/L	< 0.020 U	NA	< 0.24 U	0.66	0.33	0.17	NA	NA	0.036 J	< 0.015 U	< 0.020 U
Delta BHC (Delta Hexachlorocyclohexane)	NSL	µg/L	< 0.020 U	< 0.048 U	< 0.24 U	< 0.055 U	< 0.010 U	< 0.020 U	< 0.045 U	NA	< 0.050 U	< 0.010 U	< 0.020 U
Dieldrin	0.004	µg/L	< 0.020 U	< 0.0019 U	< 0.24 U	0.012 J	< 0.0098 U	< 0.020 U	< 0.0018 U	NA	< 0.050 U	< 0.0098 U	< 0.020 U
Endosulfan Sulfate	NSL	µg/L	< 0.020 U	< 0.076 U	< 0.24 U	< 0.055 U	< 0.016 U	< 0.020 U	< 0.072 U	NA	< 0.050 U	< 0.016 U	< 0.020 U
Endrin	NSL	µg/L	< 0.020 U	< 0.076 U	< 0.24 U	0.033 J	< 0.014 U	< 0.020 U	< 0.072 U	NA	< 0.050 U	< 0.014 U	< 0.020 U
Endrin Aldehyde	5	µg/L	< 0.020 U	< 0.076 U	< 0.24 U	< 0.055 U	< 0.016 U	< 0.020 U	< 0.072 U	NA	0.017 J	< 0.016 U	< 0.020 U
Endrin Ketone	5	µg/L	< 0.020 U	< 0.076 U	< 0.24 U	0.050 J	< 0.012 U	< 0.020 U	< 0.072 U	NA	< 0.050 U	< 0.012 U	< 0.020 U
Gamma Bhc (Lindane)	NSL	µg/L	< 0.020 U	< 0.029 U	< 0.24 U	0.049 J	< 0.0080 U	< 0.020 U	< 0.027 U	NA	< 0.050 U	< 0.0080 U	< 0.020 U
Heptachlor	0.04	µg/L	< 0.020 U	< 0.048 U	0.093 J	< 0.055 U	< 0.0085 U	< 0.020 U	< 0.045 U	NA	< 0.050 U	< 0.0085 U	< 0.020 U
Heptachlor Epoxide	0.03	µg/L	< 0.020 U	< 0.048 U	< 0.24 U	0.063	< 0.0074 U	< 0.020 U	< 0.045 U	NA	< 0.050 U	< 0.0074 U	< 0.020 U
Hexachlorobenzene	0.04	µg/L	NA	< 0.048 U	NA	NA	NA	NA	< 0.045 U	NA	NA	NA	NA
Methoxychlor	35	µg/L	< 0.020 U	< 0.48 U	< 0.24 U	< 0.055 U	< 0.014 U	< 0.020 U	< 0.45 U	NA	< 0.050 U	< 0.014 U	< 0.020 U
P,P'-DDD	0.3	µg/L	< 0.020 U	< 0.038 U	0.12 J	0.033 J	< 0.0092 U	< 0.020 U	< 0.036 U	NA	< 0.050 U	< 0.0092 U	< 0.020 U
P,P'-DDE	0.2	µg/L	< 0.020 U	< 0.038 U	< 0.24 U	0.038 J	< 0.012 U	< 0.020 U	< 0.036 U	NA	< 0.050 U	< 0.012 U	< 0.020 U
P,P'-DDT	0.2	µg/L	< 0.020 U	< 0.038 U	< 0.24 U	< 0.055 U	< 0.011 U	< 0.020 U	< 0.036 U	NA	< 0.050 U	< 0.011 U	< 0.020 U
Toxaphene	0.06	µg/L	< 0.50 U	< 0.95 U	< 2.4 U	< 0.55 U	< 0.12 U	< 0.50 U	< 0.9 U	NA	< 0.50 U	< 0.12 U	< 0.50 U
trans-Chlordane	NSL	µg/L	< 0.020 U	NA	NA	0.18	0.14	0.096	NA	NA	0.15	< 0.011 U	< 0.020 U

Notes:

(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).

µg/L = Microgram(s) per liter

J = Concentration is estimated

J+ = Concentration is estimated, biased high

NA = Not analyzed

ng/L = Nanogram(s) per liter

NSL - No screening level available

U = Analyte not detected

Concentrations exceeding the screening level are shaded gray

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			MW-15D 5/15/2019 MW-15D 051519-20190515	MW-15D 5/24/2023 518014-MW-15D	MW-15S 1/10/2012 MW-15S	MW-15S 10/14/2015 MW-15S-20151014	MW-15S 3/15/2017 MW-15S 031517	MW-15S 5/13/2019 MW-15S 051319-20190513	MW-15S 5/23/2023 518014-MW-15S	MW-16D 10/14/2015 MW-16D-20151014	MW-16D 10/15/2015 MW-16D-20151015	MW-16D 3/17/2017 MW-16D 031717	MW-16D 5/15/2019 MW-16D 051519-20190515	MW-16D 5/24/2023 518014-MW-16D
Analyte	NYSDEC AWQS ¹	Unit												
SVOCs (SW8270)														
1,2,4,5-Tetrachlorobenzene	NSL	µg/L	NA	< 9.3 U	NA	NA	NA	NA	< 9.1 U	NA	NA	NA	NA	< 10 U
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	< 0.19 U	NA	NA	< 0.20 U	NA	< 0.2 U	NA	NA	< 0.20 U	NA	< 0.19 U
2,4,5-Trichlorophenol	NSL	µg/L	< 10 U	< 9.3 U	< 4.7 U	< 26 U	< 0.48 U	< 10 U	< 9.1 U	< 5.4 U	NA	< 0.48 U	< 10 U	< 10 U
2,4,6-Trichlorophenol	NSL	µg/L	< 10 U	< 9.3 U	< 4.7 U	< 26 U	< 0.61 U	< 10 U	< 9.1 U	< 5.4 U	NA	< 0.61 U	< 10 U	< 10 U
2,4-Dichlorophenol	5	µg/L	< 10 U	< 9.3 U	< 4.7 U	< 26 U	< 0.51 U	< 10 U	< 9.1 U	< 5.4 U	NA	< 0.51 U	< 10 U	< 10 U
2,4-Dimethylphenol	50	µg/L	< 10 U	< 9.3 U	< 4.7 U	< 26 U	< 0.50 U	< 10 U	< 9.1 U	< 5.4 U	NA	< 0.50 U	< 10 U	< 10 U
2,4-Dinitrophenol	10	µg/L	< 20 U	< 9.3 UJ	< 9.4 U	< 52 U	< 2.2 U	< 20 U	< 9.1 UJ	< 11 U	NA	< 2.2 U	< 20 U	< 10 UJ
2,4-Dinitrotoluene	5	µg/L	< 2.0 U	< 9.3 U	< 4.7 U	< 26 U	< 0.45 U	< 2.0 U	< 9.1 U	< 5.4 U	NA	< 0.45 U	< 2.0 U	< 10 U
2,6-Dinitrotoluene	5	µg/L	< 2.0 U	< 9.3 U	< 4.7 U	< 26 U	< 0.40 U	< 2.0 U	< 9.1 U	< 5.4 U	NA	< 0.40 U	< 2.0 U	< 10 U
2-Chloronaphthalene	10	µg/L	< 10 U	< 9.3 U	< 4.7 U	< 26 U	< 0.46 U	< 10 U	< 9.1 U	< 5.4 U	NA	< 0.46 U	< 10 U	< 10 U
2-Chlorophenol	1	µg/L	< 10 U	< 9.3 U	< 4.7 U	< 26 U	< 0.53 U	< 10 U	< 9.1 U	< 5.4 U	NA	< 0.53 U	< 10 U	< 10 U
2-Methylnaphthalene	NSL	µg/L	< 10 U	< 4.7 U	< 4.7 U	< 26 U	< 0.60 U	< 10 U	< 4.5 U	< 5.4 U	NA	< 0.60 U	< 10 U	< 5 U
2-Methylphenol (O-Cresol)	NSL	µg/L	< 10 U	< 9.3 U	< 4.7 U	< 26 U	< 0.40 U	< 10 U	< 9.1 U	< 5.4 U	NA	< 0.40 U	< 10 U	< 10 U
2-Nitroaniline	5	µg/L	< 10 U	< 9.3 U	< 9.4 U	< 52 U	< 0.42 U	< 10 U	< 9.1 U	< 11 U	NA	< 0.42 U	< 10 U	< 10 U
2-Nitrophenol	NSL	µg/L	< 10 U	< 9.3 U	< 4.7 U	< 26 U	< 0.48 U	< 10 U	< 9.1 U	< 5.4 U	NA	< 0.48 U	< 10 U	< 10 U
3- And 4- Methylphenol (Total)	NSL	µg/L	NA	< 9.3 U	NA	NA	NA	NA	< 9.1 U	NA	NA	NA	NA	< 10 U
3,3'-Dichlorobenzidine	5	µg/L	< 10 U	< 9.3 U	< 4.7 U	< 26 U	< 0.40 U	< 10 U	< 9.1 U	< 5.4 U	NA	< 0.40 U	< 10 U	< 10 U
3-Nitroaniline	5	µg/L	< 10 U	< 9.3 U	< 9.4 U	< 52 U	< 0.48 U	< 10 U	< 9.1 U	< 11 U	NA	< 0.48 U	< 10 U	< 10 U
4,6-Dinitro-2-Methylphenol	NSL	µg/L	< 20 U	< 19 UJ	< 9.4 U	< 52 U	< 2.2 U	< 20 U	< 18 UJ	< 11 U	NA	< 2.2 U	< 20 U	< 20 UJ
4-Bromophenyl Phenyl Ether	NSL	µg/L	< 10 U	< 9.3 U	< 4.7 U	< 26 U	< 0.45 U	< 10 U	< 9.1 U	< 5.4 U	NA	< 0.45 U	< 10 U	< 10 U
4-Chloro-3-Methylphenol	NSL	µg/L	< 10 U	< 9.3 U	< 4.7 U	< 26 U	< 0.45 U	< 10 U	< 9.1 U	< 5.4 U	NA	< 0.45 U	< 10 U	< 10 U
4-Chloroaniline	5	µg/L	< 10 U	< 9.3 U	< 4.7 U	< 26 U	< 0.59 U	< 10 U	< 9.1 U	< 5.4 U	NA	< 0.59 U	< 10 U	< 10 U
4-Chlorophenyl Phenyl Ether	NSL	µg/L	< 10 U	< 9.3 U	< 4.7 U	< 26 U	< 0.35 U	< 10 U	< 9.1 U	< 5.4 U	NA	< 0.35 U	< 10 U	< 10 U
4-Methylphenol (P-Cresol)	NSL	µg/L	< 10 U	NA	< 9.4 U	4.4 J	< 0.36 U	< 10 U	NA	< 11 U	NA	< 0.36 U	< 10 U	NA
4-Nitroaniline	5	µg/L	< 10 U	< 9.3 U	< 9.4 U	< 52 U	< 0.25 U	< 10 U	< 9.1 U	< 11 U	NA	< 0.25 U	< 10 U	< 10 U
4-Nitrophenol	NSL	µg/L	< 20 U	< 9.3 U	< 9.4 U	< 52 U	< 1.5 U	< 20 U	< 9.1 U	< 11 U	NA	< 1.5 U	< 20 U	< 10 U
Acenaphthene	20	µg/L	< 10 U	< 4.7 U	< 4.7 U	< 26 U	< 0.41 U	< 10 U	< 4.5 U	< 5.4 U	NA	< 0.41 U	< 10 U	< 5 U
Acenaphthylene	NSL	µg/L	< 10 U	< 4.7 U	< 4.7 U	< 26 U	< 0.38 U	< 10 U	< 4.5 U	< 5.4 U	NA	< 0.38 U	< 10 U	< 5 U
Acetophenone	NSL	µg/L	< 10 U	< 9.3 U	73	< 26 U	< 0.54 U	2.2 J	< 9.1 U	< 5.4 U	NA	< 0.54 U	< 10 U	< 10 U
Anthracene	50	µg/L	< 10 U	< 4.7 U	< 4.7 U	< 26 U	< 0.28 U	< 10 U	< 4.5 U	< 5.4 U	NA	< 0.28 U	< 10 U	< 5 U
Atrazine	NSL	µg/L	< 2.0 U	< 19 U	< 4.7 U	< 26 U	< 0.46 U	< 2.0 U	< 18 U	< 5.4 U	NA	< 0.46 U	< 2.0 U	< 20 U
Benzaldehyde	NSL	µg/L	< 10 U	< 9.3 UJ	< 4.7 U	< 26 U	< 0.27 U	< 10 U	< 9.1 UJ	1.3 J	NA	< 0.27 U	< 10 U	< 10 UJ
Benzo(A)Anthracene	0.002	µg/L	< 1.0 U	< 4.7 U	< 4.7 U	< 26 U	< 0.36 U	< 1.0 U	< 4.5 U	< 5.4 U	NA	< 0.36 U	< 1.0 U	< 5 U
Benzo(A)Pyrene	NSL	µg/L	< 1.0 U	< 4.7 U	< 4.7 U	< 26 U	< 0.47 U	< 1.0 U	< 4.5 U	< 5.4 U	NA	< 0.47 U	< 1.0 U	< 5 U
Benzo(B)Fluoranthene	0.002	µg/L	< 2.0 U	< 4.7 U	< 4.7 U	< 26 U	< 0.34 U	< 2.0 U	< 4.5 U	< 5.4 U	NA	< 0.34 U	< 2.0 U	< 5 U
Benzo(G,H,I)Perylene	NSL	µg/L	< 10 U	< 4.7 U	< 4.7 U	< 26 U	< 0.35 U	< 10 U	< 4.5 U	< 5.4 U	NA	< 0.35 U	< 10 U	< 5 U
Benzo(K)Fluoranthene	0.002	µg/L	< 1.0 U	< 4.7 U	< 4.7 U	< 26 U	< 0.73 U	< 1.0 U	< 4.5 U	< 5.4 U	NA	< 0.73 U	< 1.0 U	< 5 U
Benzyl Butyl Phthalate	50	µg/L	< 10 U	< 9.3 UJ	< 4.7 U	< 26 U	< 1.0 U	< 10 U	< 9.1 UJ	< 5.4 U	NA	< 1.0 U	< 10 U	< 10 UJ
Biphenyl (Diphenyl or 1,1'-Biphenyl)	5	µg/L	< 10 U	< 19 U	< 4.7 U	< 26 U	< 0.65 U	< 10 U	< 18 U	< 5.4 U	NA	< 0.65 U	< 10 U	< 20 U
Bis(2-Chloroethoxy) Methane	5	µg/L	< 10 U	< 9.3 U	< 4.7 U	< 26 U	< 0.35 U	< 10 U	< 9.1 U	< 5.4 U	NA	< 0.35 U	< 10 U	< 10 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	µg/L	< 1.0 U	< 9.3 U	< 4.7 U	< 26 U	< 0.40 U	< 1.0 U	< 9.1 U	< 5.4 U	NA	< 0.40 U	< 1.0 U	< 10 U
Bis(2-Chloroisopropyl) Ether	5	µg/L	< 10 U	< 9.3 U	< 4.7 U	< 26 U	< 0.52 U	< 10 U	< 9.1 U	< 5.4 U	NA	< 0.52 U	< 10 U	< 10 U
Bis(2-Ethylhexyl) Phthalate	5	µg/L	< 2.0 U	< 9.3 UJ	< 4.7 U	< 26 U	< 2.2 U	< 2.0 U	< 9.1 UJ	2.4 J	NA	< 2.2 U	< 2.0 U	< 10 UJ
Caprolactam	NSL	µg/L	< 10 U	< 9.3 UJ	< 4.7 U	< 26 U	< 2.2 U	< 10 U	< 9.1 UJ	< 5.4 U	NA	< 2.2 U	< 10 U	< 10 UJ
Carbazole	NSL	µg/L	< 10 U	< 9.3 U	< 4.7 U	< 26 U	< 0.30 U	< 10 U	< 9.1 U	< 5.4 U	NA	< 0.30 U	< 10 U	< 10 U
Chrysene	0.002	µg/L	< 2.0 U	< 4.7 U	< 4.7 U	< 26 U	< 0.33 U	< 2.0 U	< 4.5 U	< 5.4 U	NA	< 0.33 U	< 2.0 U	< 5 U
Dibenz(A,H)Anthracene	NSL	µg/L	< 1.0 U	< 4.7 U	< 4.7 U	< 26 U	< 0.42 U	< 1.0 U	< 4.5 U	< 5.4 U	NA	< 0.42 U	< 1.0 U	< 5 U
Dibenzofuran	NSL	µg/L	< 10 U	< 4.7 U	< 9.4 U	< 52 U	< 0.51 U	< 10 U	< 4.5 U	< 11 U	NA	< 0.51 U	< 10 U	< 5 U
Diethyl Phthalate	50	µg/L	< 10 U	< 9.3 U	< 4.7 U	< 26 U	< 0.22 U	< 10 U	< 9.1 U	< 5.4 U	NA	< 0.22 U	< 10 U	< 10 U
Dimethyl Phthalate	50	µg/L	< 10 U	< 9.3 U	< 4.7 U	< 26 U	< 0.36 U	< 10 U	< 9.1 U	< 5.4 U	NA	< 0.36 U	< 10 U	< 10 U
Di-N-Butyl Phthalate	50	µg/L	< 10 U	< 9.3 U	< 4.7 U	< 26 U	< 0.31 U	< 10 U	< 9.1 U	< 5.4 U	NA	< 0.31 U	< 10 U	< 10 U
Di-N-Octylphthalate	50	µg/L	< 10 U	< 9.3 UJ	< 4.7 U	< 26 U	< 0.47 U	< 10 U	< 9.1 UJ	< 5.4 U	NA	< 0.47 U	< 10 U	< 10 UJ
Fluoranthene	50	µg/L	< 10 U	< 4.7 U	< 4.7 U	< 26 U	< 0.40 U	< 10 U	< 4.5 U	< 5.4 U	NA	< 0.40 U	< 10 U	< 5 U
Fluorene	50	µg/L	< 10 U	< 4.7 U	< 4.7 U	< 26 U	< 0.36 U	< 10 U	< 4.5 U	< 5.4 U	NA	< 0.36 U	< 10 U	< 5 U
Hexachlorobenzene	0.04	µg/L	< 1.0 U	< 9.3 U	< 4.7 U	< 26 U	< 0.51 U	< 1.0 U	< 9.1 U	< 5.4 U	NA	< 0.51 U	< 1.0 U	< 10 U
Hexachlorobutadiene	0.5	µg/L	< 1.0 U	< 9.3 UJ	< 4.7 U	< 26 U	< 0.68 U	< 1.0 U	< 9.1 U	< 5.4 U	NA	< 0.68 U	< 1.0 U	< 10 U
Hexachlorocyclopentadiene	5	µg/L	< 10 U	< 9.3 UJ	< 4.7 U	< 26 U	< 0.59 U	< 10 U	< 9.1 U	< 5.4 U	NA	< 0.59 U	< 10 U	< 10 U
Hexachloroethane	5	µg/L	< 2.0 U	< 9.3 UJ	< 4.7 U	< 26 U	< 0.59 U	< 2.0 U	< 9.1 UJ	< 5.4 U	NA	< 0.59 U	< 2.0 U	< 10 UJ
Indeno(1,2,3-C,D)Pyrene	0.002	µg/L	< 2.0 U	< 4.7 U	< 4.7 U	< 26 U	< 0.47 U	< 2.0 U	< 4.5 U	< 5.4 U	NA	< 0.47 U	< 2.0 U	< 5 U
Isophorone	50	µg/L	< 10 U	< 9.3 U	< 4.7 U	< 26 U	< 0.43 U	< 10 U	< 9.1 U	< 5.4 U	NA	< 0.43 U	< 10 U	< 10 U
Naphthalene	10	µg/L	< 10 U	< 4.7 U	< 4.7 U	< 26 U	< 0.76 U	< 10 U	< 4.5 U	< 5.4 U	NA	< 0.76 U	< 10 U	< 5 U
Nitrobenzene	0.4	µg/L	< 1.0 U	< 9.3 U	< 4.7 U	< 26 U	< 0.29 U	< 1.0 U	< 9.1 U	< 5.4 U	NA	< 0.29 U	< 1.0 U	< 10 U
N-Nitrosodi-N-Propylamine	NSL	µg/L	< 1.0 U	< 9.3 U	< 4.7 U	< 26 U	< 0.54 U	< 1.0 U	< 9.1 U	< 5.4 U	NA	< 0.54 U	< 1.0 U	< 10 U
N-Nitrosodiphenylamine	50	µg/L	< 10 U	< 9.3 U	< 4.7 U	< 26 U	< 0.51 U	< 10 U	< 9.1 U	< 5.4 U	NA	< 0.51 U	< 10 U	< 10 U
Pentachlorophenol	1	µg/L	< 20 U	< 9.3 U	< 9.4 U	< 52 U	< 0.0022 U	< 20 U	< 9.1 U	< 11 U	NA	< 0.0022 U	< 20 U	< 10 U
Phenanthrene	50	µg/L	< 10 U	< 4.7 U	< 4.7 U	< 26 U	< 0.00044 U	< 10 U	< 4.5 U	< 5.4 U	NA	< 0.00044 U	< 10 U	< 5 U
Phenol	NSL	µg/L	< 10 U	< 9.3 U	< 4.7 U	< 26 U	< 0.39 U	< 10 U	< 9.1 U	< 5.4 U	NA	< 0.39 U	< 10 U	3.3 J
Pyrene	50	µg/L	< 10 U	< 4.7 U	< 4.7 U	< 26 U	< 0.34 U	< 10 U	< 4.5 U	< 5.4 U	NA	< 0.34 U	< 10 U	< 5 U

Notes:

(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).

µg/L = Microgram(s) per liter

J = Concentration is estimated

J+ = Concentration is estimated, biased high

NA = Not analyzed

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			MW-17 10/14/2015 MW-17-20151014	MW-17 12/8/2015 MW-17 120815-20151208	MW-17 12/8/2015 DUP-1 120815-20151208 MW-17 120815-20151208	MW-17 3/8/2016 MW-17 030816-20160308	MW-17 5/31/2016 MW-17 053116	MW-17 5/31/2016 DUP1-053116 MW-17 053116	MW-17 9/14/2016 MW-17 091416	MW-17 9/14/2016 DUP-1 091416 MW-17 091416	MW-17 12/6/2016 MW-17 12016	MW-17 12/6/2016 DUP-1 12016 MW-17 12016-20161206	MW-17 3/15/2017 MW-17 031517	MW-17 6/13/2017 MW-17 061317
Analyte	NYSDEC AWQS ¹	Unit												
PFAS (E537/E1633)														
11-Chloroicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.92 U	< 2.0 U
Perfluorobutanoic Acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	12
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.7 J	< 2.0 U
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.4	2.5
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170	260
Perfluorooctanoic acid (PFOA)	6.7	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27	18
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTcDA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTriA/PFTTrDA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs (SW8260)														
1,1,1,2-Tetrachloroethane	5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 3.5 U	< 3.5 U	< 7.0 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 0.70 U	< 4.0 U
1,1,1-Trichloroethane (TCA)	5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 8.2 U	< 8.2 U	< 16 U	< 4.1 U	< 4.1 U	< 4.1 U	< 4.1 U	< 1.6 U	< 4.0 U
1,1,2,2-Tetrachloroethane	5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 2.1 U	< 2.1 U	< 4.2 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U	< 0.42 U	< 4.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 3.1 U	< 3.1 U	< 6.2 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 0.62 U	< 4.0 U
1,1,2-Trichloroethane	1	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 2.3 U	< 2.3 U	< 4.6 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 0.46 U	< 4.0 U
1,1-Dichloroethane	5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 3.8 U	< 3.8 U	< 7.6 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 0.76 U	< 4.0 U
1,1-Dichloroethene	5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 2.9 U	< 2.9 U	< 5.8 U	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U	< 0.58 U	< 4.0 U
1,1-Dichloropropene	5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 7.2 U	< 7.2 U	< 14 U	< 3.6 U	< 3.6 U	< 3.6 U	< 3.6 U	< 1.4 U	< 4.0 U
1,2,3-Trichlorobenzene	5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 4.1 U	< 4.1 U	< 8.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.82 U	< 4.0 U
1,2,3-Trichloropropane	0.04	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 8.9 U	< 8.9 U	< 18 U	< 4.5 U	< 4.5 U	< 4.5 U	< 4.5 U	< 1.8 U	< 4.0 U
1,2,4-Trichlorobenzene	5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 4.1 U	< 4.1 U	< 8.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.82 U	< 4.0 U
1,2,4-Trimethylbenzene	NSL	µg/L	220	< 5.0 U	< 5.0 U	61	170	200	87	100	200	200	92	160
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 3.9 U	< 3.9 U	< 7.8 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 0.78 U	< 4.0 U
1,2-Dibromomethane (Ethylene Dibromide)	NSL	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 7.3 U	< 7.3 U	< 15 U	< 3.7 U	< 3.7 U	< 3.7 U	< 3.7 U	< 1.5 U	< 4.0 U
1,2-Dichlorobenzene	3	µg/L	28	15	14	< 7.9 U	14	< 16 U	11	12	15	15	7.3	14
1,2-Dichloroethane	0.6	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 2.1 U	< 2.1 U	< 4.2 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U	< 0.42 U	< 4.0 U
1,2-Dichloropropane	1	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 7.2 U	< 7.2 U	< 14 U	< 3.6 U	< 3.6 U	< 3.6 U	< 3.6 U	< 1.4 U	< 4.0 U
1,3,5-Trimethylbenzene (Mesitylene)	NSL	µg/L	140	< 5.0 U	< 5.0 U	54	100	120	37	51	85	83	40	72
1,3-Dichlorobenzene	3	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 7.8 U	< 7.8 U	< 16 U	< 3.9 U	< 3.9 U	< 3.9 U	< 3.9 U	< 1.6 U	< 4.0 U
1,3-Dichloropropane	5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 7.5 U	< 7.5 U	< 15 U	< 3.8 U	< 3.8 U	< 3.8 U	< 3.8 U	< 1.5 U	< 4.0 U
1,4-Dichlorobenzene	3	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 8.4 U	< 8.4 U	< 17 U	< 4.2 U	< 4.2 U	< 4.2 U	< 4.2 U	< 1.7 U	< 4.0 U
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.20 U	NA
2,2-Dichloropropane	NSL	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 4.0 U	< 4.0 U	< 8.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 0.80 U	< 4.0 U
2-Chlorotoluene	NSL	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 8.6 U	< 8.6 U	< 17 U	< 4.3 U	< 4.3 U	< 4.3 U	< 4.3 U	< 1.7 U	< 4.0 U
2-Hexanone	50	µg/L	< 25 U	< 25 U	< 25 U	< 12 U	< 12 U	< 25 U	< 6.2 U	< 6.2 U	< 6.2 U	< 6.2 U	< 2.5 U	< 20 U
4-Chlorotoluene	NSL	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 8.4 U	< 8.4 U	< 17 U	< 4.2 U	< 4.2 U	< 4.2 U	< 4.2 U	< 1.7 U	< 4.0 U
Acetone	50	µg/L	< 50 U	25 J	24 J	< 30 U	< 30 U	< 60 U	< 15 U	< 15 U	< 15 U	< 15 U	15 J	< 40 U
Benzene	1	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 4.1 U	< 4.1 U	< 8.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.82 U	< 4.0 U
Bromobenzene	NSL	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 8.0 U	< 8.0 U	< 16 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 1.6 U	< 4.0 U
Bromochloromethane	5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 8.7 U	< 8.7 U	< 17 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 1.7 U	< 4.0 U
Bromodichloromethane	50	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 3.9 U	< 3.9 U	< 7.8 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 0.78 U	< 4.0 U
Bromoform	50	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 2.6 U	< 2.6 U	< 5.2 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 0.52 U	< 4.0 U

Notes:

(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).

µg/L = Microgram(s) per liter

J = Concentration is estimated

J+ = Concentration is estimated, biased high

NA = Not analyzed

ng/L = Nanogram(s) per liter

NSL - No screening level available

U = Analyte not detected

Concentrations exceeding the screening level are shaded gray

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			MW-17 10/14/2015 MW-17-20151014	MW-17 12/8/2015 MW-17 120815-20151208	MW-17 12/8/2015 DUP-1 120815-20151208 MW-17 120815-20151208	MW-17 3/8/2016 MW-17 030816-20160308	MW-17 5/31/2016 MW-17 053116	MW-17 5/31/2016 DUP1-053116 MW-17 053116	MW-17 9/14/2016 MW-17 091416	MW-17 9/14/2016 DUP-1 091416 MW-17 091416	MW-17 12/6/2016 MW-17 12016	MW-17 12/6/2016 DUP-1 12016 MW-17 12016-20161206	MW-17 3/15/2017 MW-17 031517	MW-17 6/13/2017 MW-17 061317
Analyte	NYSDEC AWQS ¹	Unit												
Bromomethane	5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 6.9 U	< 6.9 U	< 14 U	< 3.5 U	< 3.5 U	< 3.5 U	< 3.5 U	< 1.4 U	< 4.0 U
Carbon Disulfide	60	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	2.7 J	4.4 J	< 3.8 U	1.3 J	2.3 J	1.6 J	< 0.95 U	0.65 J	< 4.0 U
Carbon Tetrachloride	5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 2.7 U	< 2.7 U	< 5.4 U	< 1.4 U	< 1.4 U	< 1.4 U	< 1.4 U	< 0.54 U	< 4.0 U
Chlorobenzene	5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 7.5 U	< 7.5 U	< 15 U	< 3.8 U	< 3.8 U	< 3.8 U	< 3.8 U	< 1.5 U	< 4.0 U
Chloroethane	5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 3.2 U	< 3.2 U	< 6.4 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 0.64 U	< 4.0 U
Chloroform	7	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 3.4 U	< 3.4 U	< 6.8 U	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U	< 0.68 U	< 4.0 U
Chloromethane (Methyl Chloride)	NSL	µg/L	< 5.0 U	7	7	< 3.5 U	< 3.5 U	< 7.0 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 0.70 U	< 4.0 U
Cis-1,2-Dichloroethylene	5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 8.1 U	< 8.1 U	< 16 U	< 4.1 U	< 4.1 U	< 4.1 U	< 4.1 U	< 1.6 U	< 4.0 U
Cis-1,3-Dichloropropene	0.4	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 3.6 U	< 3.6 U	< 7.2 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 0.72 U	< 4.0 U
Cyclohexane	NSL	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 1.8 U	< 1.8 U	< 3.6 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.36 U	< 4.0 U
Cymene	NSL	µg/L	28	< 5.0 U	< 5.0 U	6.6 J	19	25	9.7	12	18	19	8.3	14
Dibromochloromethane	50	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 3.2 U	< 3.2 U	< 6.4 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 0.64 U	< 4.0 U
Dibromomethane	5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 4.1 U	< 4.1 U	< 8.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.82 U	< 4.0 U
Dichlorodifluoromethane	5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 6.8 U	< 6.8 U	< 14 U	< 3.4 U	< 3.4 U	< 3.4 U	< 3.4 U	< 1.4 U	< 4.0 U
Ethylbenzene	5	µg/L	4.0 J	< 5.0 U	< 5.0 U	< 7.4 U	< 7.4 U	< 15 U	< 3.7 U	< 3.7 U	< 3.7 U	< 3.7 U	< 1.5 U	< 4.0 U
Hexachlorobutadiene	0.5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 2.8 U	< 2.8 U	< 5.6 U	< 1.4 U	< 1.4 U	< 1.4 U	< 1.4 U	< 0.56 U	< 4.0 U
Iodomethane (Methyl Iodide)	NSL	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 3.0 U	< 3.0 U	< 6.0 U	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U	< 0.60 U	< 4.0 U
Isopropylbenzene (Cumene)	5	µg/L	9.1	< 5.0 U	< 5.0 U	< 7.9 U	< 7.9 U	< 16 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	4.4 J	3.4 J
Methyl Acetate	NSL	µg/L	< 13 U	< 13 U	< 13 U	< 13 U	< 13 U	< 26 U	< 6.5 U	< 6.5 U	< 6.5 U	< 6.5 U	< 2.6 U	< 10 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	< 50 U	< 50 U	< 50 U	< 13 U	< 13 U	< 26 U	< 6.6 U	< 6.6 U	< 6.6 U	< 6.6 U	< 2.6 U	< 40 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 25 U	< 25 U	< 25 U	< 21 U	< 21 U	< 42 U	< 11 U	< 11 U	< 11 U	< 11 U	< 4.2 U	< 20 U
Methyleyclohexane	NSL	µg/L	4.8 J	< 5.0 U	< 5.0 U	< 1.6 U	< 1.6 U	< 3.2 U	< 0.80 U	3.0 J	1.2 J	< 0.80 U	0.93 J	1.2 J
Methylene Chloride	5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	5.7 J	< 4.4 U	< 8.8 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U	< 0.88 U	2.1 J
M-P-Xylene	NSL	µg/L	21	< 10 U	< 10 U	< 6.6 U	< 6.6 U	< 13 U	3.3 J	4.0 J	11	12	6.8	12
Naphthalene	10	µg/L	32	< 5.0 U	< 5.0 U	6.9 J	26	27	11	12	26	24	11	19
N-Butylbenzene	5	µg/L	36	< 5.0 U	< 5.0 U	< 6.4 U	22	27	12	10	7.5	23	9.4	16
N-Propylbenzene	NSL	µg/L	16	< 5.0 U	< 5.0 U	< 6.9 U	< 6.9 U	< 14 U	4.8 J	6.2	7.9	7.9	4.5	6.5
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	32	8.2	7.8	11	23	25	5.6	5.6	21	23	11	21
Sec-Butylbenzene	5	µg/L	16	< 5.0 U	< 5.0 U	< 7.5 U	7.9 J	< 15 U	5.3	7.8	8.3	9.4	4.1	7
Styrene	5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 7.3 U	< 7.3 U	< 15 U	< 3.7 U	< 3.7 U	< 3.7 U	< 3.7 U	< 1.5 U	< 4.0 U
T-Butylbenzene	5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 8.1 U	< 8.1 U	< 16 U	< 4.1 U	< 4.1 U	< 4.1 U	< 4.1 U	< 1.6 U	< 4.0 U
Tert-Butyl Methyl Ether	10	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 1.6 U	< 1.6 U	< 3.2 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.32 U	< 4.0 U
Tetrachloroethylene (PCE)	5	µg/L	4.6 J	4.1 J	3.6 J	< 3.6 U	< 3.6 U	< 7.2 U	3.0 J	4.3 J	2.5 J	< 1.8 U	1.7 J	3.2 J
Toluene	5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 5.1 U	< 5.1 U	< 10 U	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U	< 1.0 U	< 4.0 U
Trans-1,2-Dichloroethene	5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 9.0 U	< 9.0 U	< 18 U	< 4.5 U	< 4.5 U	< 4.5 U	< 4.5 U	< 1.8 U	< 4.0 U
Trans-1,3-Dichloropropene	0.4	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 3.7 U	< 3.7 U	< 7.4 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 0.74 U	< 4.0 U
Trichloroethylene (TCE)	5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 4.6 U	< 4.6 U	< 9.2 U	< 2.3 U	< 2.3 U	< 2.3 U	< 2.3 U	< 0.92 U	< 4.0 U
Trichlorofluoromethane	5	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 8.8 U	< 8.8 U	< 18 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 1.8 U	< 4.0 U
Vinyl Acetate	NSL	µg/L	< 25 U	< 25 U	< 25 U	< 8.5 U	< 8.5 U	< 17 U	< 4.3 U	< 4.3 U	< 4.3 U	< 4.3 U	< 1.7 U	< 20 U
Vinyl Chloride	2	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 9.0 U	< 9.0 U	< 18 U	< 4.5 U	< 4.5 U	< 4.5 U	< 4.5 U	< 1.8 U	< 4.0 U
Xylenes	5	µg/L	53	8.2 J	7.8 J	11 J	23	25 J	8.9 J	9.6 J	32	35	18	33
Pesticides (SW8081)														
Alachlor	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	NSL	µg/L	0.035 J	0.14 J	0.16 J	< 0.079 U	< 0.041 U	< 0.0074 U	0.064 J	0.059 J	0.089 J	0.073 J	0.12 J	0.038 J
Alpha Bhc (Alpha Hexachlorocyclohexane)	NSL	µg/L	< 0.10 U	0.086 J	0.084 J	< 0.075 U	< 0.039 U	< 0.0070 U	< 0.037 U	< 0.035 U	< 0.036 U	< 0.038 U	< 0.077 U	< 0.10 U
Alpha Endosulfan	NSL	µg/L	< 0.10 U	< 0.46 U	< 0.48 U	< 0.11 U	< 0.056 U	< 0.010 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.11 U	< 0.10 U
Beta Bhc (Beta Hexachlorocyclohexane)	NSL	µg/L	< 0.10 U	< 0.46 U	< 0.48 U	< 0.24 U	< 0.13 U	< 0.023 U	< 0.12 U	< 0.11 U	< 0.11 U	< 0.12 U	< 0.25 U	< 0.10 U
Beta Endosulfan	NSL	µg/L	< 0.10 U	< 0.46 U	< 0.48 U	< 0.12 U	< 0.061 U	< 0.011 U	< 0.058 U	< 0.055 U	< 0.056 U	< 0.059 U	< 0.12 U	< 0.10 U
Chlordane	0.05	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlordane (Technical)	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-Chlordane	NSL	µg/L	0.098 J	< 0.46 U	< 0.48 U	< 0.14 U	< 0.075 U	< 0.014 U	< 0.071 U	< 0.068 U	< 0.068 U	< 0.073 U	< 0.15 U	0.091 J
Delta BHC (Delta Hexachlorocyclohexane)	NSL	µg/L	0.045 J	0.25 J	0.26 J	0.16 J	< 0.051 U	< 0.0091 U	< 0.048 U	< 0.046 U	< 0.046 U	< 0.049 U	< 0.10 U	< 0.10 U
Dieldrin	0.004	µg/L	< 0.10 U	0.13 J	0.13 J	< 0.096 U	< 0.050 U	< 0.0090 U	< 0.047 U	< 0.045 U	< 0.045 U	< 0.048 U	< 0.098 U	< 0.10 U
Endosulfan Sulfate	NSL	µg/L	< 0.10 U	0.27 J	< 0.48 U	< 0.15 U	< 0.080 U	< 0.014 U	< 0.076 U	< 0.072 U	< 0.073 U	< 0.077 U	< 0.16 U	< 0.10 U
Endrin	NSL	µg/L	< 0.10 U	< 0.46 U	< 0.48 U	< 0.14 U	< 0.070 U	< 0.013 U	< 0.067 U	< 0.063 U	< 0.064 U	< 0.068 U	< 0.14 U	< 0.10 U
Endrin Aldehyde	5	µg/L	0.042 J	< 0.46 U	< 0.48 U	< 0.16 U	< 0.083 U	< 0.015 U	< 0.079 U	< 0.075 U	< 0.075 U	< 0.080 U	< 0.16 U	< 0.10 U
Endrin Ketone	5	µg/L	< 0.10 U	< 0.46 U	< 0.48 U	< 0.12 U	< 0.061 U	< 0.011 U	< 0.058 U	< 0.055 U	< 0.056 U	< 0.059 U	< 0.12 U	< 0.10 U
Gamma Bhc (Lindane)	NSL	µg/L	0.023 J	0.12 J	0.12 J	0.11 J	< 0.041 U	< 0.0073 U	< 0.039 U	< 0.037 U	< 0.037 U	< 0.039 U	< 0.080 U	0.049 J
Heptachlor	0.04	µg/L	< 0.10 U	< 0.46 U	< 0.48 U	< 0.083 U	< 0.043 U	< 0.0078 U	< 0.041 U	< 0.039 U	< 0.039 U	< 0.042 U	< 0.085 U	0.073 J
Heptachlor Epoxide	0.03	µg/L	< 0.10 U	< 0.46 U	< 0.48 U	< 0.072 U	< 0.037 U	< 0.0068 U	< 0.036 U	< 0.034 U	< 0.034 U	< 0.036 U	< 0.074 U	< 0.10 U
Hexachlorobenzene	0.04	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	35	µg/L	< 0.10 U	< 0.46 U	< 0.48 U	< 0.14 U	< 0.071 U	< 0.013 U	< 0.068 U	< 0.065 U	< 0.065 U	< 0.069 U	< 0.14 U	< 0.10 U
P,P'-DDD	0.3	µg/L	< 0.10 U	< 0.46 U	0.13 J	< 0.090 U	< 0.047 U	< 0.0084 U	< 0.044 U	< 0.042 U	< 0.043 U	< 0.045 U	< 0.092 U	< 0.10 U
P,P'-DDE	0.2	µg/L	0.035 J	< 0.46 U	0.13 J	< 0.11 U	< 0.059 U	< 0.011 U	< 0.059 U	< 0.053 U	< 0.054 U	< 0.057 U	< 0.12 U	< 0.10 U
P,P'-DDT	0.2	µg/L	< 0.10 U	< 0.46 U	< 0.48 U	< 0.11 U	< 0.056 U	< 0.010 U	< 0.053 U	< 0.050 U	< 0.051 U	< 0.054 U	< 0.11 U	< 0.10 U
Toxaphene	0.06	µg/L	< 1.0 U	< 4.6 U	< 4.8 U	< 1.2 U	< 0.61 U	< 0.11 U	< 0.58 U	< 0.55 U	< 0.56 U	< 0.59 U	< 1.2 U	< 1.0 U
trans-Chlordane	NSL	µg/L	< 0.10 U	< 0.46 U	< 0.48 U	< 0.11 U	< 0.056 U	0.017 J	0.055 J	0.060 J	< 0.051 U	< 0.054 U	< 0.11 U	< 0.10 U

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).
µg/L = Microgram(s) per liter
J = Concentration is estimated
J+ = Concentration is estimated, biased high
NA = Not analyzed
ng/L = Nanogram(s) per liter
NSL = No screening level available
U = Analyte not detected
Concentrations exceeding the screening level are shaded gray

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Analyte	Location ID		MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17
	Sample Date		10/14/2015	12/8/2015	12/8/2015	3/8/2016	5/31/2016	5/31/2016	5/31/2016	9/14/2016	9/14/2016	12/6/2016	12/6/2016	3/15/2017	6/13/2017
	Parent Sample ID		MW-17-20151014	MW-17 120815-20151208	DUP-1 120815-20151208 MW-17 120815-20151208	MW-17 030816-20160308	MW-17 053116	MW-17 053116	MW-17 053116	MW-17 091416	DUP-1 091416 MW-17 091416	MW-17 12016	MW-17 12016-20161206	MW-17 031517	MW-17 061317
	NYSDEC AWQS ¹	Unit													
SVOCs (SW8270)															
1,2,4,5-Tetrachlorobenzene	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.20 U	NA
2,4,5-Trichlorophenol	NSL	µg/L	< 52 U	0.56 J	0.59 J	< 0.45 U	< 0.47 U	< 0.45 U	< 0.47 U	< 0.45 U	< 0.45 U	< 2.3 U	< 2.4 U	< 0.48 U	< 25 U
2,4,6-Trichlorophenol	NSL	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.58 U	< 0.60 U	< 0.57 U	< 0.59 U	< 0.57 U	< 2.9 U	< 3.0 U	< 0.61 U	< 2.5 U	< 25 U
2,4-Dichlorophenol	5	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.48 U	< 0.50 U	< 0.48 U	< 0.50 U	< 0.48 U	< 0.48 U	< 2.4 U	< 2.5 U	< 0.51 U	< 25 U
2,4-Dimethylphenol	50	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.47 U	< 0.49 U	< 0.47 U	< 0.49 U	< 0.49 U	0.76 J	< 2.4 U	< 2.5 U	< 0.50 U	< 25 U
2,4-Dinitrophenol	10	µg/L	< 100 U	< 9.5 U	< 9.6 U	< 2.1 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 2.1 U	< 10 U	< 11 U	< 2.2 U	< 50 U
2,4-Dinitrotoluene	5	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.42 U	< 0.44 U	< 0.42 U	< 0.44 U	< 0.42 U	< 0.42 U	< 2.1 U	< 2.2 U	< 0.45 U	< 25 U
2,6-Dinitrotoluene	5	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.38 U	< 0.39 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.37 U	< 1.9 U	< 2.0 U	< 0.40 U	< 25 U
2-Chloronaphthalene	10	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.43 U	< 0.45 U	< 0.43 U	< 0.45 U	< 0.43 U	< 0.43 U	< 2.2 U	< 2.3 U	< 0.46 U	< 25 U
2-Chlorophenol	1	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.50 U	< 0.52 U	< 0.50 U	< 0.52 U	< 0.50 U	< 0.50 U	< 2.5 U	< 2.6 U	< 0.53 U	< 25 U
2-Methylnaphthalene	NSL	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.57 U	0.69 J	< 0.56 U	< 0.58 U	< 0.56 U	< 0.56 U	< 2.8 U	< 3.0 U	< 0.60 U	< 25 U
2-Methylphenol (O-Cresol)	NSL	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.38 U	< 0.39 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.37 U	< 1.9 U	< 2.0 U	< 0.40 U	< 25 U
2-Nitroaniline	5	µg/L	< 100 U	< 9.5 U	< 9.6 U	< 0.40 U	< 0.39 U	< 0.41 U	< 0.39 U	< 0.41 U	< 0.39 U	< 2.0 U	< 2.1 U	< 0.42 U	< 50 U
2-Nitrophenol	NSL	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.45 U	< 0.47 U	< 0.45 U	< 0.47 U	< 0.45 U	< 0.45 U	< 2.3 U	< 2.4 U	< 0.48 U	< 25 U
3- And 4- Methylphenol (Total)	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	5	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.38 U	< 0.39 U	< 0.37 U	< 0.39 U	< 0.37 U	< 0.37 U	< 1.9 U	< 2.0 U	< 0.40 U	< 25 U
3-Nitroaniline	5	µg/L	< 100 U	< 9.5 U	< 9.6 U	< 0.45 U	< 0.47 U	< 0.45 U	< 0.47 U	< 0.45 U	< 0.45 U	< 2.3 U	< 2.4 U	< 0.48 U	< 50 U
4,6-Dinitro-2-Methylphenol	NSL	µg/L	< 100 U	< 9.5 U	< 9.6 U	< 2.1 U	< 2.2 U	< 2.1 U	< 2.2 U	< 2.1 U	< 10 U	< 11 U	< 11 U	< 2.2 U	< 50 U
4-Bromophenyl Phenyl Ether	NSL	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.42 U	< 0.44 U	< 0.42 U	< 0.44 U	< 0.42 U	< 0.42 U	< 2.1 U	< 2.2 U	< 0.45 U	< 25 U
4-Chloro-3-Methylphenol	NSL	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.42 U	< 0.44 U	< 0.42 U	< 0.44 U	< 0.42 U	< 0.42 U	< 2.1 U	< 2.2 U	< 0.45 U	< 25 U
4-Chloroaniline	5	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.56 U	< 0.58 U	< 0.55 U	< 0.57 U	< 0.55 U	< 2.8 U	< 2.9 U	< 2.9 U	< 0.59 U	< 25 U
4-Chlorophenyl Phenyl Ether	NSL	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.33 U	< 0.35 U	< 0.33 U	< 0.34 U	< 0.33 U	< 0.33 U	< 1.6 U	< 1.7 U	< 0.35 U	< 25 U
4-Methylphenol (P-Cresol)	NSL	µg/L	< 100 U	0.66 J	0.62 J	7.4 J	6.7 J	5.0 J	< 0.35 U	0.47 J	9.0 J	7.0 J	2.1 J	2.1 J	2.1 J
4-Nitroaniline	5	µg/L	< 100 U	< 9.5 U	< 9.6 U	< 0.24 U	< 0.25 U	< 0.23 U	< 0.24 U	< 0.23 U	< 1.2 U	< 1.2 U	< 1.2 U	< 0.25 U	< 50 U
4-Nitrophenol	NSL	µg/L	< 100 U	< 9.5 U	< 9.6 U	< 1.4 U	< 1.5 U	< 1.4 U	< 1.5 U	< 1.4 U	< 7.2 U	< 7.6 U	< 7.6 U	< 1.5 U	< 50 U
Acenaphthene	20	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.39 U	< 0.40 U	< 0.38 U	< 0.40 U	< 0.38 U	< 1.9 U	< 2.0 U	< 2.0 U	< 0.41 U	< 25 U
Acenaphthylene	NSL	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.36 U	< 0.37 U	< 0.36 U	< 0.37 U	< 0.36 U	< 1.8 U	< 1.9 U	< 1.9 U	< 0.38 U	< 25 U
Acetophenone	NSL	µg/L	< 52 U	27	26	< 0.51 U	< 0.53 U	< 0.51 U	< 0.53 U	< 0.51 U	< 2.5 U	< 2.7 U	< 2.7 U	< 0.54 U	< 25 U
Anthracene	50	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.26 U	< 0.28 U	< 0.26 U	< 0.27 U	< 0.26 U	< 1.3 U	< 1.4 U	< 1.4 U	< 0.28 U	< 25 U
Atrazine	NSL	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.43 U	< 0.45 U	< 0.43 U	< 0.45 U	< 0.43 U	< 2.2 U	< 2.3 U	< 2.3 U	< 0.46 U	< 25 U
Benzaldehyde	NSL	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.25 U	< 0.26 U	< 0.25 U	< 0.26 U	< 0.25 U	< 1.3 U	< 1.3 U	< 1.3 U	< 0.27 U	< 25 U
Benzo(A)Anthracene	0.002	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.34 U	< 0.36 U	< 0.34 U	< 0.35 U	< 0.34 U	< 1.7 U	< 1.8 U	< 1.8 U	< 0.36 U	< 25 U
Benzo(A)Pyrene	NSL	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.44 U	< 0.46 U	< 0.44 U	< 0.46 U	< 0.44 U	< 2.2 U	< 2.3 U	< 2.3 U	< 0.47 U	< 25 U
Benzo(B)Fluoranthene	0.002	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.32 U	< 0.34 U	< 0.32 U	< 0.33 U	< 0.32 U	< 1.6 U	< 1.7 U	< 1.7 U	< 0.34 U	< 25 U
Benzo(G,H,I)Perylene	NSL	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.33 U	< 0.35 U	< 0.33 U	< 0.34 U	< 0.33 U	< 1.6 U	< 1.7 U	< 1.7 U	< 0.35 U	< 25 U
Benzo(K)Fluoranthene	0.002	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.69 U	< 0.72 U	< 0.68 U	< 0.71 U	< 0.68 U	< 3.4 U	< 3.6 U	< 3.6 U	< 0.73 U	< 25 U
Benzyl Butyl Phthalate	50	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.40 U	< 0.99 U	< 0.94 U	< 0.97 U	< 0.94 U	< 4.7 U	< 5.0 U	< 5.0 U	< 1.0 U	< 25 U
Biphenyl (Diphenyl or 1,1'-Biphenyl)	5	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.62 U	< 0.64 U	< 0.61 U	< 0.64 U	< 0.61 U	< 3.1 U	< 3.3 U	< 3.3 U	< 0.65 U	< 25 U
Bis(2-Chloroethoxy) Methane	5	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.33 U	< 0.35 U	< 0.33 U	< 0.34 U	< 0.33 U	< 1.6 U	< 1.7 U	< 1.7 U	< 0.35 U	< 25 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.38 U	< 0.39 U	< 0.37 U	< 0.39 U	< 0.37 U	< 1.9 U	< 2.0 U	< 2.0 U	< 0.40 U	< 25 U
Bis(2-Chloroisopropyl) Ether	5	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.49 U	< 0.51 U	< 0.49 U	< 0.51 U	< 0.49 U	< 2.4 U	< 2.6 U	< 2.6 U	< 0.52 U	< 25 U
Bis(2-Ethylhexyl) Phthalate	5	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 1.7 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 10 U	< 11 U	< 11 U	< 2.2 U	< 25 U
Caprolactam	NSL	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 2.1 U	< 2.2 U	< 2.1 U	< 2.1 U	< 2.1 U	< 10 U	< 11 U	< 11 U	< 2.2 U	< 25 U
Carbazole	NSL	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.28 U	< 0.30 U	< 0.28 U	< 0.29 U	< 0.28 U	< 1.4 U	< 1.5 U	< 1.5 U	< 0.30 U	< 25 U
Chrysene	0.002	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.31 U	< 0.33 U	< 0.31 U	< 0.32 U	< 0.31 U	< 1.6 U	< 1.6 U	< 1.6 U	< 0.33 U	< 25 U
Dibenz(A,H)Anthracene	NSL	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.40 U	< 0.41 U	< 0.39 U	< 0.41 U	< 0.39 U	< 2.0 U	< 2.1 U	< 2.1 U	< 0.42 U	< 25 U
Dibenzofuran	NSL	µg/L	< 100 U	< 9.5 U	< 9.6 U	< 0.48 U	< 0.50 U	< 0.48 U	< 0.50 U	< 0.48 U	< 2.4 U	< 2.5 U	< 2.5 U	< 0.51 U	< 50 U
Diethyl Phthalate	50	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.21 U	< 0.22 U	< 0.21 U	< 0.21 U	< 0.21 U	< 1.0 U	< 1.1 U	< 1.1 U	< 0.22 U	< 25 U
Dimethyl Phthalate	50	µg/L	< 52 U	< 4.8 U	< 4.8 U	< 0.34 U	< 0.36 U	< 0.34 U	< 0.35 U	< 0.34 U	< 1.7 U	< 1.8 U	< 1.8 U	< 0.36 U	< 25 U
Di-N-Butyl Phthalate	50	µg/L	< 52 U												

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			MW-17 5/13/2019 MW-17 051319-20190513	MW-17 5/23/2023 518014-MW-17	MW-18 10/14/2015 MW-18-20151014	MW-18 12/8/2015 MW-18 120815-20151208	MW-18 3/8/2016 MW-18 030816-20160308	MW-18 5/31/2016 MW-18 053116	MW-18 9/14/2016 MW-18 091416	MW-18 12/7/2016 MW-18 12016	MW-18 3/15/2017 MW-18 031517	MW-18 6/13/2017 MW-18 061317	MW-18 5/13/2019 MW-18 051319-20190513	MW-18 5/23/2023 518014-MW-18
Analyte	NYSDEC AWQS ¹	Unit												
PFAS (E537/E1633)														
11-Chloroicosfluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NSL	ng/L	NA	< 3.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.6 U
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	< 80 U	< 3.6 U	NA	NA	NA	NA	NA	NA	NA	NA	< 84 U	< 3.6 U
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	< 3.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.6 U
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	< 80 U	< 3.6 U	NA	NA	NA	NA	NA	NA	NA	NA	< 84 U	< 3.6 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	< 45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 46 U
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	< 45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 46 U
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	< 9 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 9.1 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	< 3.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.6 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	NA	< 3.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.6 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	< 3.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.6 U
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	NA	< 0.9 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.91 U
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	63 J	45	NA	NA	NA	NA	NA	NA	NA	NA	< 84 U	0.97
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	< 9 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 9.1 U
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NSL	ng/L	NA	< 0.9 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.91 U
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NSL	ng/L	< 80 U	1.2	NA	NA	NA	NA	NA	NA	NA	NA	< 84 U	< 0.91 U
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NSL	ng/L	NA	< 9 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 9.1 U
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	NSL	ng/L	NA	< 1.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.8 U
Perfluoro-2-ethoxyethane)sulfonic acid (PFEEESA)	NSL	ng/L	NA	< 1.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.8 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	< 1.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.8 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	< 1.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.8 U
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	< 8.0 UJ	1.7	NA	NA	NA	NA	NA	NA	< 0.92 U	< 2.0 U	< 8.4 U	1
Perfluorobutanoic Acid	NSL	ng/L	< 8.0 UJ	17 J	NA	NA	NA	NA	NA	NA	NA	NA	< 8.4 UJ	< 3.6 U
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	< 8.0 U	< 0.9 U	NA	NA	NA	NA	NA	NA	NA	NA	< 8.4 U	< 0.91 U
Perfluorodecanoic acid (PFDA)	NSL	ng/L	< 8.0 U	1.2	NA	NA	NA	NA	NA	NA	NA	NA	< 8.4 U	0.17 J
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	< 0.9 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.91 U
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	< 8.0 U	< 0.9 U	NA	NA	NA	NA	NA	NA	NA	NA	< 8.4 U	< 0.91 U
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	< 8.0 U	3.2	NA	NA	NA	NA	NA	NA	NA	NA	11	2.6
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	4.3 J	2.9	NA	NA	NA	NA	NA	NA	3.2	1.8 J	13	0.98
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	< 8.0 UJ	1.2	NA	NA	NA	NA	NA	NA	2	2.9	15	2.3
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	5.3 J	2.3	NA	NA	NA	NA	NA	NA	NA	NA	13	0.74 J
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	NA	< 0.9 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.91 U
Perfluorononanoic acid (PFNA)	NSL	ng/L	1.2 J	1.4	NA	NA	NA	NA	NA	NA	0.89 J	< 2.0 U	< 8.4 U	0.88 J
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	2.9 J	14	NA	NA	NA	NA	NA	NA	NA	NA	< 8.4 U	< 0.91 U
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	160	320	NA	NA	NA	NA	NA	NA	48	41	81	31
Perfluorooctanoic acid (PFOA)	6.7	ng/L	9.2 J	11	NA	NA	NA	NA	NA	NA	14	9.2	49 J	10
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	< 0.9 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.36 J
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	3.5 J	< 1.8 U	NA	NA	NA	NA	NA	NA	NA	NA	13	< 1.8 U
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	< 8.0 U	< 0.9 U	NA	NA	NA	NA	NA	NA	NA	NA	< 8.4 U	< 0.91 U
Perfluorotridecanoic Acid (PFTriA/PFTTrDA)	NSL	ng/L	< 8.0 U	< 0.9 U	NA	NA	NA	NA	NA	NA	NA	NA	< 8.4 U	< 0.91 U
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	< 8.0 UJ	< 0.9 U	NA	NA	NA	NA	NA	NA	NA	NA	< 8.4 U	< 0.91 U
VOCs (SW8260)														
1,1,1,2-Tetrachloroethane	5	µg/L	NA	NA	< 5.0 U	< 10 U	< 3.5 U	< 3.5 U	< 1.4 U	< 0.35 U	< 0.35 U	< 1.0 U	NA	NA
1,1,1-Trichloroethane (TCA)	5	µg/L	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 8.2 U	< 8.2 U	< 3.3 U	< 0.82 U	< 0.82 U	< 1.0 U	< 1.0 U	< 1 U
1,1,2,2-Tetrachloroethane	5	µg/L	< 1.0 U	< 0.5 U	< 5.0 U	< 10 U	< 2.1 U	< 2.1 U	< 0.84 U	< 0.21 U	< 0.21 U	< 1.0 U	< 1.0 U	< 0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 3.1 U	< 3.1 U	< 1.2 U	< 0.31 U	< 0.31 U	< 1.0 U	< 1.0 U	< 1 U
1,1,2-Trichloroethane	1	µg/L	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 2.3 U	< 2.3 U	< 0.92 U	< 0.23 U	< 0.23 U	< 1.0 U	< 1.0 U	< 1 U
1,1-Dichloroethane	5	µg/L	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 3.8 U	< 3.8 U	< 1.5 U	< 0.38 U	< 0.38 U	< 1.0 U	< 1.0 U	< 1 U
1,1-Dichloroethene	5	µg/L	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 2.9 U	< 2.9 U	< 1.2 U	< 0.29 U	< 0.29 U	< 1.0 U	< 1.0 U	< 1 U
1,1-Dichloropropene	5	µg/L	NA	NA	< 5.0 U	< 10 U	< 7.2 U	< 7.2 U	< 2.9 U	< 0.72 U	< 0.72 U	< 1.0 U	NA	NA
1,2,3-Trichlorobenzene	5	µg/L	NA	< 5 U	< 5.0 U	< 10 U	< 4.1 U	< 4.1 U	< 1.6 U	< 0.41 U	< 0.41 U	< 1.0 U	NA	< 5 U
1,2,3-Trichloropropane	0.04	µg/L	NA	NA	< 5.0 U	< 10 U	< 8.9 U	< 8.9 U	< 3.6 U	< 0.89 U	< 0.89 U	< 1.0 U	NA	NA
1,2,4-Trichlorobenzene	5	µg/L	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 4.1 U	< 4.1 U	< 1.6 U	< 0.41 U	< 0.41 U	< 1.0 U	< 1.0 U	< 1 U
1,2,4-Trimethylbenzene	NSL	µg/L	45	NA	440	15	< 7.5 U	< 7.5 U	3.3 J	< 0.75 U	< 0.75 U	< 1.0 U	< 1.0 U	NA
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 1.0 U	< 5 U	< 5.0 U	< 10 U	< 3.9 U	< 3.9 U	< 1.6 U	< 0.39 U	< 0.39 U	< 1.0 U	< 1.0 U	< 5 U
1,2-Dibromoethane (Ethylene Dibromide)	NSL	µg/L	< 1.0 U	< 0.5 U	< 5.0 U	< 10 U	< 7.3 U	< 7.3 U	< 2.9 U	< 0.73 U	< 0.73 U	< 1.0 U	< 1.0 U	< 0.5 U
1,2-Dichlorobenzene	3	µg/L	3.8	2	26	< 10 U	< 7.9 U	< 7.9 U	< 3.2 U	< 0.79 U	< 0.79 U	< 1.0 U	< 1.0 U	0.44 J
1,2-Dichloroethane	0.6	µg/L	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 2.1 U	< 2.1 U	< 0.84 U	< 0.21 U	< 0.21 U	< 1.0 U	< 1.0 U	< 1 U
1,2-Dichloropropane	1	µg/L	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 7.2 U	< 7.2 U	< 2.9 U	< 0.72 U	< 0.72 U	< 1.0 U	< 1.0 U	< 1 U
1,3,5-Trimethylbenzene (Mesitylene)	NSL	µg/L	19	NA	180	< 10 U	< 7.7 U	< 7.7 U	< 3.1 U	< 0.77 U	< 0.77 U	< 1.0 U	< 1.0 U	NA
1,3-Dichlorobenzene	3	µg/L	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 7.8 U	< 7.8 U	< 3.1 U	< 0.78 U	< 0.78 U	< 1.0 U	< 1.0 U	< 1 U
1,3-Dichloropropane	5	µg/L	NA	NA	< 5.0 U	< 10 U	< 7.5 U	< 7.5 U	< 3.0 U	< 0.75 U	< 0.75 U	< 1.0 U	NA	NA
1,4-Dichlorobenzene	3	µg/L	< 1.0 U	0.33 J	4.4 J	< 10 U	< 8.4 U	< 8.4 U	< 3.4 U	< 0.84 U	< 0.84 U	< 1.0 U	< 1.0 U	< 1 U
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.20 U	NA	NA	NA
2,2-Dichloropropane	NSL	µg/L	NA	NA	< 5.0 U	< 10 U	< 4.0 U	< 4.0 U	< 1.6 U	< 0.40 U	< 0.40 U	< 1.0 U	NA	NA
2-Chlorotoluene	NSL	µg/L	NA	NA	< 5.0 U	< 10 U	< 8.6 U	< 8.6 U	< 3.4 U	< 0.86 U	< 0.86 U	< 1.0 U	NA	NA
2-Hexanone	50	µg/L	< 5.0 U	< 10 U	< 25 U	< 50 U	< 12 U	< 12 U	< 5.0 U	< 1.2 U	< 1.2 U	< 5.0 U	< 5.0 U	< 10 U
4-Chlorotoluene	NSL	µg/L	NA	NA	< 5.0 U	< 10 U	< 8.4 U	< 8.4 U	< 3.4 U	< 0.84 U	< 0.84 U	< 1.0 U	NA	NA
Acetone	50	µg/L	< 5.0 U	< 50 U	< 50 U	73 J	< 30 U	< 30 U	16 J	< 3.0 U	< 3.0 U	3.1 J	< 5.0 U	< 50 U
Benzene	1	µg/L	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 4.1 U	< 4.1 U	< 1.6 U	< 0.41 U	< 0.41 U	< 1.0 U	< 1.0 U	< 1 U
Bromobenzene	NSL	µg/L	NA	NA	< 5.0 U	< 10 U	< 8.0 U	< 8.0 U	< 3.2 U	< 0.80 U	< 0.80 U	< 1.0 U	NA	NA
Bromochloromethane	5	µg/L	NA	< 1 U	< 5.0 U	< 10 U	< 8.7 U	< 8.7 U	< 3.5 U	< 0.87 U	< 0.87 U	< 1.0 U	NA	< 1 U
Bromodichloromethane	50	µg/L	< 1.0 U	< 0.5 U	< 5.0 U	< 10 U	< 3.9 U	< 3.9 U	< 1.6 U	< 0.39 U	< 0.39 U	< 1.0 U	< 1.0 U	< 0.5 U
Bromoform	50	µg/L	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 2.6 U	< 2.6 U	< 1.0 U	< 0.26 U	< 0.26 U	< 1.0 U	< 1.0 U	< 1 U

Notes:

(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).

µg/L = Microgram(s) per liter

J = Concentration is estimated

J+ = Concentration is estimated, biased high

NA = Not analyzed

ng/L = Nanogram(s) per liter

NSL = No screening level available

U = Analyte not detected

Concentrations exceeding the screening level are shaded gray

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			MW-17 5/13/2019 MW-17 051319-20190513	MW-17 5/23/2023 518014-MW-17	MW-18 10/14/2015 MW-18-20151014	MW-18 12/8/2015 MW-18 120815-20151208	MW-18 3/8/2016 MW-18 030816-20160308	MW-18 5/31/2016 MW-18 053116	MW-18 9/14/2016 MW-18 091416	MW-18 12/7/2016 MW-18 12016	MW-18 3/15/2017 MW-18 031517	MW-18 6/13/2017 MW-18 061317	MW-18 5/13/2019 MW-18 051319-20190513	MW-18 5/23/2023 518014-MW-18
Analyte	NYSDEC AWQS ¹	Unit												
Bromomethane	5	µg/L	< 1.0 U	< 2 U	< 5.0 U	< 10 U	< 6.9 U	< 6.9 U	< 2.8 U	< 0.69 U	< 0.69 U	< 1.0 U	< 1.0 U	< 2 U
Carbon Disulfide	60	µg/L	< 1.0 U	< 5 U	< 5.0 U	< 10 U	< 1.9 U	< 1.9 U	< 0.76 U	< 0.19 U	< 0.19 U	< 1.0 U	< 1.0 U	< 5 U
Carbon Tetrachloride	5	µg/L	< 1.0 U	< 5 U	< 5.0 U	< 10 U	< 2.7 U	< 2.7 U	< 1.1 U	< 0.27 U	< 0.27 U	< 1.0 U	< 1.0 U	< 5 U
Chlorobenzene	5	µg/L	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 7.5 U	< 7.5 U	< 3.0 U	< 0.75 U	< 0.75 U	< 1.0 U	< 1.0 U	< 1 U
Chloroethane	5	µg/L	< 1.0 U	< 2 U	< 5.0 U	< 10 U	< 3.2 U	< 3.2 U	< 1.3 U	< 0.32 U	< 0.32 U	< 1.0 U	< 1.0 U	< 2 U
Chloroform	7	µg/L	< 1.0 U	< 2 U	< 5.0 U	< 10 U	< 3.4 U	< 3.4 U	< 1.4 U	< 0.34 U	< 0.34 U	< 1.0 U	< 1.0 U	< 2 U
Chloromethane (Methyl Chloride)	NSL	µg/L	< 1.0 U	< 2 U	< 5.0 U	17	< 3.5 U	< 3.5 U	< 1.4 U	< 0.35 U	< 0.35 U	< 1.0 U	< 1.0 U	< 2 U
Cis-1,2-Dichloroethylene	5	µg/L	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 8.1 U	< 8.1 U	< 3.2 U	< 0.81 U	< 0.81 U	< 1.0 U	< 1.0 U	< 1 U
Cis-1,3-Dichloropropene	0.4	µg/L	< 1.0 U	< 0.5 U	< 5.0 U	< 10 U	< 3.6 U	< 3.6 U	< 1.4 U	< 0.36 U	< 0.36 U	< 1.0 U	< 1.0 U	< 0.5 U
Cyclohexane	NSL	µg/L	< 1.0 U	< 5 U	< 5.0 U	< 10 U	< 1.8 U	< 1.8 U	< 0.72 U	< 0.18 U	< 0.18 U	< 1.0 U	< 1.0 U	< 5 U
Cymene	NSL	µg/L	4.5	NA	31	3.5 J	< 3.1 U	< 3.1 U	< 1.2 U	< 0.31 U	< 0.31 U	< 1.0 U	< 1.0 U	NA
Dibromochloromethane	50	µg/L	< 1.0 U	< 0.5 U	< 5.0 U	< 10 U	< 3.2 U	< 3.2 U	< 1.3 U	< 0.32 U	< 0.32 U	< 1.0 U	< 1.0 U	< 0.5 U
Dibromomethane	5	µg/L	NA	NA	< 5.0 U	< 10 U	< 4.1 U	< 4.1 U	< 1.6 U	< 0.41 U	< 0.41 U	< 1.0 U	NA	NA
Dichlorodifluoromethane	5	µg/L	< 1.0 U	< 2 U	< 5.0 U	< 10 U	< 6.8 U	< 6.8 U	< 2.7 U	< 0.68 U	< 0.68 U	< 1.0 U	< 1.0 U	< 2 U
Ethylbenzene	5	µg/L	0.64 J	0.27 J	46	< 10 U	< 7.4 U	< 7.4 U	< 3.0 U	< 0.74 U	< 0.74 U	< 1.0 U	< 1.0 U	0.40 J
Hexachlorobutadiene	0.5	µg/L	NA	NA	< 5.0 U	< 10 U	< 2.8 U	< 2.8 U	< 1.1 U	< 0.28 U	< 0.28 U	< 1.0 U	NA	NA
Iodomethane (Methyl Iodide)	NSL	µg/L	NA	NA	< 5.0 U	< 10 U	< 3.0 U	< 3.0 U	< 1.2 U	< 0.30 U	< 0.30 U	< 1.0 U	NA	NA
Isopropylbenzene (Cumene)	5	µg/L	1.1	0.48 J	21	< 10 U	< 7.9 U	< 7.9 U	< 3.2 U	< 0.79 U	< 0.79 U	< 1.0 U	< 1.0 U	0.20 J
Methyl Acetate	NSL	µg/L	< 5.0 U	< 1 U	< 13 U	< 25 U	< 13 U	< 13 U	< 5.2 U	< 1.3 U	< 1.3 U	< 2.5 U	< 5.0 U	< 1 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	< 5.0 U	< 20 U	< 50 U	< 100 U	< 13 U	< 13 U	< 5.3 U	< 1.3 U	< 1.3 U	< 10 U	< 5.0 U	< 20 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 5.0 U	< 10 U	< 25 U	< 50 U	< 21 U	< 21 U	< 8.4 U	< 2.1 U	< 2.1 U	< 5.0 U	< 5.0 U	< 10 U
Methylcyclohexane	NSL	µg/L	0.64 J	0.23 J	7	< 10 U	< 1.6 U	< 1.6 U	< 0.64 U	< 0.16 U	< 0.16 U	< 1.0 U	< 1.0 U	< 1 U
Methylene Chloride	5	µg/L	< 1.0 U	< 5 U	< 5.0 U	4.5 J	6.3 J	< 4.4 U	< 1.8 U	< 0.44 U	< 0.44 U	< 1.0 U	< 1.0 U	< 5 U
M-P-Xylene	NSL	µg/L	3	NA	220	< 20 U	< 6.6 U	< 6.6 U	2.6 J	< 0.66 U	< 0.66 U	< 2.0 U	< 1.0 U	NA
Naphthalene	10	µg/L	5.3	NA	55	9.2 J	< 4.3 U	< 4.3 U	< 1.7 U	< 0.43 U	< 0.43 U	< 1.0 U	< 1.0 U	NA
N-Butylbenzene	5	µg/L	2.1	NA	41	< 10 U	< 6.4 U	< 6.4 U	< 2.6 U	< 0.64 U	< 0.64 U	< 1.0 U	< 1.0 U	NA
N-Propylbenzene	NSL	µg/L	2.2	NA	42	< 10 U	< 6.9 U	< 6.9 U	< 2.8 U	< 0.69 U	< 0.69 U	< 1.0 U	< 1.0 U	NA
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	5.3	NA	120	< 10 U	< 7.6 U	< 7.6 U	8.5	< 0.76 U	< 0.76 U	< 1.0 U	< 1.0 U	NA
Sec-Butylbenzene	5	µg/L	2.6	NA	21	< 10 U	< 7.5 U	< 7.5 U	< 3.0 U	< 0.75 U	< 0.75 U	< 1.0 U	< 1.0 U	NA
Styrene	5	µg/L	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 7.3 U	< 7.3 U	< 2.9 U	< 0.73 U	< 0.73 U	< 1.0 U	< 1.0 U	< 1 U
T-Butylbenzene	5	µg/L	0.59 J	NA	< 5.0 U	< 10 U	< 8.1 U	< 8.1 U	< 3.2 U	< 0.81 U	< 0.81 U	< 1.0 U	< 1.0 U	NA
Tert-Butyl Methyl Ether	10	µg/L	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 1.6 U	< 1.6 U	< 0.64 U	< 0.16 U	< 0.16 U	< 1.0 U	< 1.0 U	< 1 U
Tetrachloroethylene (PCE)	5	µg/L	0.94 J	0.93 J	18	< 10 U	3.6 J	< 3.6 U	11	6.9	5.4	2.2	3.4	1.3
Toluene	5	µg/L	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 5.1 U	< 5.1 U	< 2.0 U	< 0.51 U	< 0.51 U	< 1.0 U	< 1.0 U	< 1 U
Trans-1,2-Dichloroethene	5	µg/L	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 9.0 U	< 9.0 U	< 3.6 U	< 0.90 U	< 0.90 U	< 1.0 U	< 1.0 U	< 1 U
Trans-1,3-Dichloropropene	0.4	µg/L	< 1.0 U	< 0.5 U	< 5.0 U	< 10 U	< 3.7 U	< 3.7 U	< 1.5 U	< 0.37 U	< 0.37 U	< 1.0 U	< 1.0 U	< 0.5 U
Trichloroethylene (TCE)	5	µg/L	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 4.6 U	< 4.6 U	< 1.8 U	< 0.46 U	< 0.46 U	< 1.0 U	< 1.0 U	< 1 U
Trichlorofluoromethane	5	µg/L	< 1.0 U	< 2 U	< 5.0 U	< 10 U	< 8.8 U	< 8.8 U	< 3.5 U	< 0.88 U	< 0.88 U	< 1.0 U	< 1.0 U	< 2 U
Vinyl Acetate	NSL	µg/L	NA	NA	< 25 U	< 50 U	< 8.5 U	< 8.5 U	< 3.4 U	< 0.85 U	< 0.85 U	< 5.0 U	NA	NA
Vinyl Chloride	2	µg/L	< 1.0 U	< 2 U	< 5.0 U	< 10 U	< 9.0 U	< 9.0 U	< 3.6 U	< 0.90 U	< 0.90 U	< 1.0 U	< 1.0 U	< 2 U
Xylenes	5	µg/L	8.3	3.7	340	< 20 U	< 6.6 U	< 6.6 U	11	< 0.66 U	< 0.66 U	< 2.0 U	< 2.0 U	1.7
Pesticides (SW8081)														
Alachlor	NSL	µg/L	NA	< 0.18 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.18 U
Aldrin	NSL	µg/L	< 0.020 U	< 0.045 U	< 0.25 U	0.11 J	< 0.038 U	< 0.0079 U	< 0.038 U	< 0.0081 U	< 0.0081 U	< 0.050 U	< 0.020 U	< 0.045 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	NSL	µg/L	< 0.020 U	< 0.045 U	< 0.25 U	0.13 J	0.050 J	< 0.0075 U	0.058 J	< 0.0077 U	0.0093 J	< 0.050 U	< 0.020 U	< 0.045 U
Alpha Endosulfan	NSL	µg/L	< 0.020 U	< 0.045 U	< 0.25 U	< 0.46 U	< 0.051 U	< 0.011 U	< 0.052 U	< 0.011 U	< 0.011 U	< 0.050 U	< 0.020 U	< 0.045 U
Beta Bhc (Beta Hexachlorocyclohexane)	NSL	µg/L	< 0.020 U	< 0.045 U	< 0.25 U	< 0.46 U	< 0.11 U	< 0.024 U	< 0.12 U	< 0.025 U	< 0.025 U	< 0.050 U	< 0.020 U	< 0.045 U
Beta Endosulfan	NSL	µg/L	< 0.020 U	< 0.072 U	< 0.25 U	< 0.46 U	< 0.056 U	< 0.012 U	< 0.057 U	< 0.012 U	< 0.012 U	< 0.050 U	< 0.020 U	< 0.073 U
Chlordane	0.05	µg/L	NA	0.55 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.18 U
Chlordane (Technical)	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-Chlordane	NSL	µg/L	< 0.020 U	NA	< 0.25 U	< 0.46 U	< 0.069 U	< 0.014 U	< 0.070 U	< 0.015 U	0.017 J	< 0.050 U	< 0.020 U	NA
Delta BHC (Delta Hexachlorocyclohexane)	NSL	µg/L	< 0.020 U	< 0.045 U	< 0.25 U	0.25 J	0.057 J	0.018 J	< 0.047 U	< 0.010 U	< 0.010 U	< 0.050 U	< 0.020 U	< 0.045 U
Dieldrin	0.004	µg/L	< 0.020 U	< 0.0018 U	< 0.25 U	0.10 J	< 0.045 U	< 0.0096 U	< 0.046 U	< 0.0098 U	< 0.0098 U	< 0.050 U	< 0.020 U	< 0.0018 U
Endosulfan Sulfate	NSL	µg/L	< 0.020 U	< 0.072 U	< 0.25 U	0.24 J	< 0.073 U	< 0.015 U	< 0.074 U	< 0.016 U	< 0.016 U	< 0.050 U	< 0.020 U	< 0.073 U
Endrin	NSL	µg/L	< 0.020 U	< 0.072 U	< 0.25 U	< 0.46 U	< 0.064 U	< 0.013 U	< 0.065 U	< 0.014 U	< 0.014 U	< 0.050 U	< 0.020 U	< 0.073 U
Endrin Aldehyde	5	µg/L	< 0.020 U	< 0.072 U	< 0.25 U	< 0.46 U	< 0.076 U	< 0.016 U	< 0.077 U	< 0.016 U	< 0.016 U	< 0.050 U	< 0.020 U	< 0.073 U
Endrin Ketone	5	µg/L	< 0.020 U	< 0.072 U	< 0.25 U	< 0.46 U	< 0.056 U	< 0.012 U	< 0.057 U	< 0.012 U	< 0.012 U	< 0.050 U	< 0.020 U	< 0.073 U
Gamma Bhc (Lindane)	NSL	µg/L	< 0.020 U	< 0.027 U	< 0.25 U	0.13 J	0.063 J	< 0.0078 U	< 0.038 U	< 0.0080 U	< 0.0080 U	< 0.050 U	< 0.020 U	< 0.027 U
Heptachlor	0.04	µg/L	< 0.020 U	< 0.045 U	0.11 J	< 0.46 U	< 0.039 U	< 0.0083 U	< 0.040 U	< 0.0085 U	< 0.0085 U	< 0.050 U	< 0.020 U	< 0.045 U
Heptachlor Epoxide	0.03	µg/L	< 0.020 U	< 0.045 U	< 0.25 U	< 0.46 U	< 0.034 U	< 0.0072 U	< 0.035 U	< 0.0074 U	< 0.0074 U	< 0.050 U	< 0.020 U	< 0.045 U
Hexachlorobenzene	0.04	µg/L	NA	< 0.045 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.045 U
Methoxychlor	35	µg/L	< 0.020 U	< 0.45 U	< 0.25 U	0.13 J	< 0.065 U	< 0.014 U	0.16 J	< 0.014 U	< 0.014 U	< 0.050 U	< 0.020 U	< 0.45 U
P,P'-DDD	0.3	µg/L	< 0.020 U	< 0.036 U	< 0.25 U	< 0.46 U	< 0.043 U	< 0.0090 U	< 0.043 U	< 0.0092 U	< 0.0092 U	< 0.050 U	< 0.020 U	< 0.036 U
P,P'-DDE	0.2	µg/L	< 0.020 U	< 0.036 U	< 0.25 U	< 0.46 U	< 0.054 U	< 0.011 U	< 0.055 U	< 0.012 U	< 0.012 U	< 0.050 U	< 0.020 U	< 0.036 U
P,P'-DDT	0.2	µg/L	< 0.020 U	< 0.036 U	< 0.25 U	< 0.46 U	< 0.051 U	< 0.011 U	< 0.052 U	< 0.011 U	0.012 J	< 0.050 U	< 0.020 U	< 0.036 U
Toxaphene	0.06	µg/L	< 0.50 U	< 0.9 U	< 2.5 U	< 4.6 U	< 0.56 U	< 0.12 U	< 0.57 U	< 0.12 U	< 0.12 U	< 0.50 U	< 0.50 U	< 0.91 U
trans-Chlordane	NSL	µg/L	< 0.020 U	NA	< 0.25 U	< 0.46 U	< 0.051 U	< 0.011 U	< 0.052 U	0.013 J	0.013 J	< 0.050 U	< 0.020 U	NA

Notes:

(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).

µg/L = Microgram(s) per liter

J = Concentration is estimated

J+ = Concentration is estimated, biased high

NA = Not analyzed

ng/L = Nanogram(s) per liter

NSL = No screening level available

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			MW-17 5/13/2019 MW-17 051319-20190513	MW-17 5/23/2023 518014-MW-17	MW-18 10/14/2015 MW-18-20151014	MW-18 12/8/2015 MW-18 120815-20151208	MW-18 3/8/2016 MW-18 030816-20160308	MW-18 5/31/2016 MW-18 053116	MW-18 9/14/2016 MW-18 091416	MW-18 12/7/2016 MW-18 12016	MW-18 3/15/2017 MW-18 031517	MW-18 6/13/2017 MW-18 061317	MW-18 5/13/2019 MW-18 051319-20190513	MW-18 5/23/2023 518014-MW-18
Analyte	NYSDEC AWQS ¹	Unit												
SVOCs (SW8270)														
1,2,4,5-Tetrachlorobenzene	NSL	µg/L	NA	<9.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	<9.3 U
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	0.062 J	NA	NA	NA	NA	NA	NA	<0.20 U	NA	NA	<0.19 U
2,4,5-Trichlorophenol	NSL	µg/L	<10 U	<9.1 U	<26 U	<4.6 U	<0.47 U	<0.48 U	<0.45 U	<2.4 U	<0.48 U	<5.0 U	<10 U	<9.3 U
2,4,6-Trichlorophenol	NSL	µg/L	<10 U	<9.1 U	<26 U	<4.6 U	<0.59 U	<0.61 U	<0.57 U	<3.0 U	<0.61 U	<5.0 U	<10 U	<9.3 U
2,4-Dichlorophenol	5	µg/L	<10 U	<9.1 U	<26 U	<4.6 U	<0.50 U	<0.51 U	<0.47 U	<2.5 U	<0.51 U	<5.0 U	<10 U	<9.3 U
2,4-Dimethylphenol	50	µg/L	<10 U	<9.1 U	<26 U	<4.6 U	<0.49 U	<0.50 U	<0.46 U	<2.5 U	<0.50 U	<5.0 U	<10 U	<9.3 U
2,4-Dinitrophenol	10	µg/L	<20 U	<18 UJ	<53 U	<9.2 U	<2.2 U	<2.2 U	<2.1 U	<11 U	<2.2 U	<10 U	<20 U	<19 UJ
2,4-Dinitrotoluene	5	µg/L	<2.0 U	<9.1 U	<26 U	<4.6 U	<0.43 U	<0.44 U	<0.41 U	<2.2 U	<0.45 U	<5.0 U	<2.0 U	<9.3 U
2,6-Dinitrotoluene	5	µg/L	<2.0 U	<9.1 U	<26 U	<4.6 U	<0.39 U	<0.40 U	<0.37 U	<2.0 U	<0.40 U	<5.0 U	<2.0 U	<9.3 U
2-Chloronaphthalene	10	µg/L	<10 U	<9.1 U	<26 U	<4.6 U	<0.45 U	<0.46 U	<0.43 U	<2.3 U	<0.46 U	<5.0 U	<10 U	<9.3 U
2-Chlorophenol	1	µg/L	<10 U	<9.1 U	<26 U	<4.6 U	<0.52 U	<0.53 U	<0.49 U	<2.6 U	<0.53 U	<5.0 U	<10 U	<9.3 U
2-Methylnaphthalene	NSL	µg/L	<10 U	<4.5 U	<26 U	5.4	<0.58 U	<0.60 U	<0.56 U	<3.0 U	<0.60 U	<5.0 U	<10 U	<4.6 U
2-Methylphenol (O-Cresol)	NSL	µg/L	<10 U	<9.1 U	<26 U	<4.6 U	<0.39 U	<0.40 U	<0.37 U	<2.0 U	<0.40 U	<5.0 U	<10 U	<9.3 U
2-Nitroaniline	5	µg/L	<10 U	<9.1 U	<53 U	<9.2 U	<0.41 U	<0.42 U	<0.39 U	<2.1 U	<0.42 U	<10 U	<10 U	<9.3 U
2-Nitrophenol	NSL	µg/L	<10 U	<9.1 U	<26 U	<4.6 U	<0.47 U	<0.48 U	<0.45 U	<2.4 U	<0.48 U	<5.0 U	<10 U	<9.3 U
3- And 4- Methylphenol (Total)	NSL	µg/L	NA	<9.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	<9.3 U
3,3'-Dichlorobenzidine	5	µg/L	<10 U	<9.1 U	<26 U	<4.6 U	<0.39 U	<0.40 U	<0.37 U	<2.0 U	<0.40 U	<5.0 U	<10 U	<9.3 U
3-Nitroaniline	5	µg/L	<10 U	<9.1 UJ	<53 U	<9.2 U	<0.47 U	<0.48 U	<0.45 U	<2.4 U	<0.48 U	<10 U	<10 U	<9.3 UJ
4,6-Dinitro-2-Methylphenol	NSL	µg/L	<20 U	<18 UJ	<53 UJ	<9.2 U	<2.1 U	<2.2 U	<2.0 U	<11 U	<2.2 U	<10 U	<20 U	<19 UJ
4-Bromophenyl Phenyl Ether	NSL	µg/L	<10 U	<9.1 U	<26 U	<4.6 U	<0.44 U	<0.45 U	<0.42 U	<2.2 U	<0.45 U	<5.0 U	<10 U	<9.3 U
4-Chloro-3-Methylphenol	NSL	µg/L	<10 U	<9.1 U	<26 U	<4.6 U	<0.44 U	<0.45 U	<0.42 U	<2.2 U	<0.45 U	<5.0 U	<10 U	<9.3 U
4-Chloroaniline	5	µg/L	<10 U	<9.1 U	<26 U	<4.6 U	<0.37 U	<0.39 U	<0.35 U	<2.9 U	<0.39 U	<5.0 U	<10 U	<9.3 U
4-Chlorophenyl Phenyl Ether	NSL	µg/L	<10 U	<9.1 U	<26 U	<4.6 U	<0.34 U	<0.35 U	<0.32 U	<1.7 U	<0.35 U	<5.0 U	<10 U	<9.3 U
4-Methylphenol (P-Cresol)	NSL	µg/L	<10 U	NA	9.0 J	1.5 J	<0.35 U	<0.36 U	<0.33 U	<1.8 U	<0.36 U	<10 U	<10 U	NA
4-Nitroaniline	5	µg/L	<10 U	<9.1 UJ	<53 U	<9.2 U	<0.24 U	<0.25 U	<0.23 U	<1.2 U	<0.25 U	<10 U	<10 U	<9.3 UJ
4-Nitrophenol	NSL	µg/L	<20 U	<18 U	<53 U	<9.2 U	<1.5 U	<1.5 U	<1.4 U	<7.5 U	<1.5 U	<10 U	<20 U	<19 U
Acenaphthene	20	µg/L	<10 U	<4.5 U	<26 U	<4.6 U	<0.40 U	<0.41 U	<0.38 U	<2.0 U	<0.41 U	<5.0 U	<10 U	<4.6 U
Acenaphthylene	NSL	µg/L	<10 U	<4.5 U	<26 U	<4.6 U	<0.37 U	<0.38 U	<0.35 U	<1.9 U	<0.38 U	<5.0 U	<10 U	<4.6 U
Acetophenone	NSL	µg/L	<10 U	<9.1 U	<26 U	<4.6 U	<0.53 U	<0.54 U	<0.50 U	<2.7 U	<0.54 U	<5.0 U	<10 U	<9.3 U
Anthracene	50	µg/L	<10 U	<4.5 U	<26 U	<4.6 U	<0.27 U	<0.28 U	<0.26 U	<1.4 U	<0.28 U	<5.0 U	<10 U	<4.6 U
Atrazine	NSL	µg/L	<2.0 U	<18 U	<26 U	<4.6 U	<0.45 U	<0.46 U	<0.43 U	<2.3 U	<0.46 U	<5.0 U	<2.0 U	<19 U
Benzaldehyde	NSL	µg/L	<10 U	<9.1 UJ	<26 U	8.5	<0.26 U	<0.27 U	<0.25 U	<1.3 U	<0.27 U	<5.0 U	<10 U	<9.3 UJ
Benzo(A)Anthracene	0.002	µg/L	<1.0 U	<4.5 U	<26 U	<4.6 U	<0.35 U	<0.36 U	<0.33 U	<1.8 U	<0.36 U	<5.0 U	<1.0 U	<4.6 U
Benzo(A)Pyrene	NSL	µg/L	<1.0 U	<4.5 U	<26 U	<4.6 U	<0.46 U	<0.47 U	<0.44 U	<2.3 U	<0.47 U	<5.0 U	<1.0 U	<4.6 U
Benzo(B)Fluoranthene	0.002	µg/L	<2.0 U	<4.5 U	<26 U	<4.6 U	<0.33 U	<0.34 U	<0.32 U	<1.7 U	<0.34 U	<5.0 U	<2.0 U	<4.6 U
Benzo(G,H,I)Perylene	NSL	µg/L	<10 U	<4.5 U	<26 U	<4.6 U	<0.34 U	<0.35 U	<0.32 U	<1.7 U	<0.35 U	<5.0 U	<10 U	<4.6 U
Benzo(K)Fluoranthene	0.002	µg/L	<1.0 U	<4.5 U	<26 U	<4.6 U	<0.71 U	<0.73 U	<0.68 U	<3.6 U	<0.73 U	<5.0 U	<1.0 U	<4.6 U
Benzyl Butyl Phthalate	50	µg/L	<10 U	<9.1 UJ	<26 U	<4.6 U	0.52 J	<0.99 U	<0.93 U	<4.9 U	<1.0 U	<5.0 U	<10 U	<9.3 UJ
Biphenyl (Diphenyl or 1,1'-Biphenyl)	5	µg/L	<10 U	<18 U	<26 U	<4.6 U	<0.64 U	<0.65 U	<0.61 U	<3.2 U	<0.65 U	<5.0 U	<10 U	<19 U
Bis(2-Chloroethoxy) Methane	5	µg/L	<10 U	<9.1 U	<26 U	<4.6 U	<0.34 U	<0.35 U	<0.32 U	<1.7 U	<0.35 U	<5.0 U	<10 U	<9.3 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	µg/L	<1.0 U	<9.1 U	<26 U	<4.6 U	<0.39 U	<0.40 U	<0.37 U	<2.0 U	<0.40 U	<5.0 U	<1.0 U	<9.3 U
Bis(2-Chloroisopropyl) Ether	5	µg/L	<10 U	<9.1 U	<26 U	<4.6 U	<0.51 U	<0.52 U	<0.48 U	<2.6 U	<0.52 U	<5.0 U	<10 U	<9.3 U
Bis(2-Ethylhexyl) Phthalate	5	µg/L	<2.0 U	<9.1 UJ	<26 U	<4.6 U	<1.8 U	<2.2 U	<2.0 U	<11 U	<2.2 U	<5.0 U	<2.0 U	<9.3 UJ
Caprolactam	NSL	µg/L	<10 U	<9.1 UJ	<26 U	<4.6 U	<2.1 U	<2.2 U	<2.0 U	<11 U	<2.2 U	<5.0 U	<10 U	<9.3 UJ
Carbazole	NSL	µg/L	<10 U	<9.1 U	<26 U	<4.6 U	<0.29 U	<0.30 U	<0.28 U	<1.5 U	<0.30 U	<5.0 U	<10 U	<9.3 U
Chrysene	0.002	µg/L	<2.0 U	<4.5 U	<26 U	<4.6 U	<0.32 U	<0.33 U	<0.31 U	<1.6 U	<0.33 U	<5.0 U	<2.0 U	<4.6 U
Dibenz(A,H)Anthracene	NSL	µg/L	<1.0 U	<4.5 U	<26 U	<4.6 U	<0.41 U	<0.42 U	<0.39 U	<2.1 U	<0.42 U	<5.0 U	<1.0 U	<4.6 U
Dibenzofuran	NSL	µg/L	<10 U	<4.5 U	<53 U	<9.2 U	<0.50 U	<0.51 U	<0.47 U	<2.5 U	<0.51 U	<10 U	<10 U	<4.6 U
Diethyl Phthalate	50	µg/L	<10 U	<9.1 U	<26 U	<4.6 U	<0.21 U	<0.22 U	<0.20 U	<1.1 U	<0.22 U	<5.0 U	<10 U	<9.3 U
Dimethyl Phthalate	50	µg/L	<10 U	<9.1 U	<26 U	<4.6 U	<0.35 U	<0.36 U	<0.33 U	<1.8 U	<0.36 U	<5.0 U	<10 U	<9.3 U
Di-N-Butyl Phthalate	50	µg/L	<10 U	<9.1 U	<26 U	0.47 J	<0.30 U	<0.31 U	<0.29 U	<1.5 U	<0.31 U	0.63 J	<10 U	<9.3 U
Di-N-Octylphthalate	50	µg/L	<10 U	<9.1 UJ	<26 U	<4.6 U	<0.46 U	<0.47 U	<0.44 U	<2.3 U	<0.47 U	<5.0 U	<10 U	<9.3 UJ
Fluoranthene	50	µg/L	<10 U	<4.5 U	<26 U	<4.6 U	<0.39 U	<0.40 U	<0.37 U	<2.0 U	<0.40 U	<5.0 U	<10 U	<4.6 U
Fluorene	50	µg/L	<10 U	<4.5 U	<26 U	<4.6 U	<0.35 U	<0.36 U	<0.33 U	<1.8 U	<0.36 U	<5.0 U	<10 U	<4.6 U
Hexachlorobenzene	0.04	µg/L	<1.0 U	<9.1 U	<26 U	<4.6 U	<0.50 U	<0.51 U	<0.47 U	<2.5 U	<0.51 U	<5.0 U	<1.0 U	<9.3 U
Hexachlorobutadiene	0.5	µg/L	<1.0 U	<9.1 U	<26 U	<4.6 U	<0.66 U	<0.68 U	<0.63 U	<3.4 U	<0.68 U	<5.0 U	<1.0 U	<9.3 U
Hexachlorocyclopentadiene	5	µg/L	<10 U	<9.1 U	<26 U	<4.6 U	<0.57 U	<0.59 U	<0.55 U	<2.9 U	<0.59 U	<5.0 U	<10 U	<9.3 U
Hexachloroethane	5	µg/L	<2.0 U	<9.1 UJ	<26 U	<4.6 U	<0.57 U	<0.59 U	<0.55 U	<2.9 U	<0.59 U	<5.0 U	<2.0 U	<9.3 UJ
Indeno(1,2,3-C,D)Pyrene	0.002	µg/L	<2.0 U	<4.5 U	<26 U	<4.6 U	<0.46 U	<0.47 U	<0.44 U	<2.3 U	<0.47 U	<5.0 U	<2.0 U	<4.6 U
Isophorone	50	µg/L	<10 U	<9.1 U	<26 U	<4.6 U	<0.42 U	<0.43 U	<0.40 U	<2.1 U	<0.43 U	<5.0 U	<10 U	<9.3 U
Naphthalene	10	µg/L	<10 U	<4.5 U	<26 U	13	0.78 J	<0.76 U	1.9 J	<3.8 U	<0.76 U	<5.0 U	<10 U	<4.6 U
Nitrobenzene	0.4	µg/L	<1.0 U	<9.1 U	<26 U	<4.6 U	<0.28 U	<0.29 U	<0.27 U	<1.4 U	<0.29 U	<5.0 U	<1.0 U	<9.3 U
N-Nitrosodi-N-Propylamine	NSL	µg/L	<1.0 U	<9.1 U	<26 U	<4.6 U	<0.53 U	<0.54 U	<0.50 U	<2.7 U	<0.54 U	<5.0 U	<1.0 U	<9.3 U
N-Nitrosodiphenylamine	50	µg/L	<10 U	<9.1 U	<26 U	<4.6 U	<0.50 U	<0.51 U	<0.47 U	<2.5 U	<0.51 U	<5.0 U	<10 U	<9.3 U
Pentachlorophenol	1	µg/L	<20 U	<9.1 U	<53 U	<9.2 U	<2.1 U	<2.2 U	<2.0 U	<11 U	<0.0022 U	<10 U	<20 U	<9.3 U
Phenanthrene	50	µg/L	<10 U	<4.5 U	<26 U	<4.6 U	<0.43 U	<0.44 U	<0.41 U	<2.2 U	<0.00044 U	<5.0 U	<10 U	<4.6 U
Phenol	NSL	µg/L	<10 U	<9.1 U	<26 U	<4.6 U	<0.38 U	<0.39 U	<0.36 U	<1.9 U	<0.39 U	<5.0 U	<10 U	<9.3 U
Pyrene	50	µg/L	<10 U	<4.5 U	<26 U	<4.6 U	<0.33 U	<0.34 U	<0.32 U	<1.7 U	<0.34 U	<5.0 U	<10 U	<4.6 U

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).
µg/L = Microgram(s) per liter
J = Concentration is estimated
J+ = Concentration is estimated, biased high
NA = Not analyzed
ng/L = Nanogram(s) per liter
NSL = No screening level available
U = Analyte not detected
Concentrations exceeding the screening level are shaded gray

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			MW-19 10/15/2015 MW-19-20151015	MW-19 3/15/2017 MW-19 031517	MW-19 5/16/2019 MW-19 051619-20190516	MW-19 5/23/2023 518014-MW-19	MW-20 10/15/2015 MW-20-20151015	MW-20 3/15/2017 MW-20 031517	MW-20 5/16/2019 MW-20 051619-20190516	MW-20 5/23/2023 518014-MW-20	MW-21 10/15/2015 MW-21-20151015	MW-21 3/8/2016 030816-20160308	MW-21 5/31/2016 MW-21 053116	MW-21 9/14/2016 MW-21 091416
Analyte	NYSDEC AWQS ¹	Unit												
PFAS (E537/E1633)														
11-Chloroicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11CI-PF3OUdS)	NSL	ng/L	NA	NA	NA	< 3.6 U	NA	NA	NA	< 3.6 U	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	NA	NA	< 84 U	< 3.6 U	NA	NA	< 85 U	< 3.6 U	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	NA	NA	< 3.6 U	NA	NA	NA	< 3.6 U	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	NA	< 84 U	< 3.6 U	NA	NA	< 85 U	< 3.6 U	NA	NA	NA	NA
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	NA	NA	< 46 U	NA	NA	NA	< 45 U	NA	NA	NA	NA
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	NA	NA	< 46 U	NA	NA	NA	< 45 U	NA	NA	NA	NA
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	NA	NA	< 9.1 U	NA	NA	NA	< 9 U	NA	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	NA	NA	< 3.6 U	NA	NA	NA	< 3.6 U	NA	NA	NA	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9CI-PF3ONS)	NSL	ng/L	NA	NA	NA	< 3.6 U	NA	NA	NA	< 3.6 U	NA	NA	NA	NA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	NA	NA	< 3.6 U	NA	NA	NA	< 3.6 U	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	NA	NA	NA	< 0.91 U	NA	NA	NA	< 0.9 U	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	NA	NA	< 84 UJ	1.1	NA	NA	< 85 UJ	< 0.9 U	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	NA	NA	< 9.1 U	NA	NA	NA	< 9 U	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NSL	ng/L	NA	NA	NA	< 0.91 U	NA	NA	NA	< 0.9 U	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NSL	ng/L	NA	NA	< 84 UJ	< 0.91 U	NA	NA	< 85 UJ	< 0.9 U	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NSL	ng/L	NA	NA	NA	< 9.1 U	NA	NA	NA	< 9 U	NA	NA	NA	NA
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	NSL	ng/L	NA	NA	NA	< 1.8 U	NA	NA	NA	< 1.8 U	NA	NA	NA	NA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	NSL	ng/L	NA	NA	NA	< 1.8 U	NA	NA	NA	< 1.8 U	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	NA	NA	< 1.8 UJ	NA	NA	NA	< 1.8 U	NA	NA	NA	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	NA	NA	< 1.8 U	NA	NA	NA	< 1.8 U	NA	NA	NA	NA
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	NA	3.2	< 8.4 UJ	2.9	NA	1.2 J	< 8.5 UJ	4.6	NA	NA	NA	NA
Perfluorobutanoic Acid	NSL	ng/L	NA	NA	< 8.4 U	4.4 J+	NA	NA	6.3 J	3.1 J	NA	NA	NA	NA
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	NA	NA	< 8.4 U	< 0.91 U	NA	NA	< 8.5 U	< 0.9 U	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	NSL	ng/L	NA	NA	< 8.4 UJ	0.18 J	NA	NA	< 8.5 UJ	< 0.9 U	NA	NA	NA	NA
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	NA	NA	< 0.91 U	NA	NA	NA	< 0.9 U	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	NA	NA	< 8.4 UJ	< 0.91 U	NA	NA	< 8.5 UJ	< 0.9 U	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHpS)	NSL	ng/L	NA	NA	< 8.4 U	0.29 J	NA	NA	< 8.5 U	< 0.9 U	NA	NA	NA	NA
Perfluorohexanoic acid (PFHpA)	NSL	ng/L	NA	4.9	15	2.6	NA	1.7 J	< 8.5 U	1.8	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	NA	1.9 J	< 8.4 UJ	1.1	NA	< 0.87 U	< 8.5 UJ	0.60 J	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	NA	NA	11	4	NA	NA	< 8.5 U	2.6	NA	NA	NA	NA
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	NA	NA	NA	< 0.91 U	NA	NA	NA	< 0.9 U	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	NSL	ng/L	NA	0.90 J	< 8.4 UJ	1	NA	< 0.65 U	< 8.5 UJ	0.60 J	NA	NA	NA	NA
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	NA	NA	< 8.4 U	< 0.91 U	NA	NA	< 8.5 U	< 0.9 U	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	NA	28	38 J	15	NA	4.9	< 8.5 UJ	5.5	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	6.7	ng/L	NA	11	20 J	5.5	NA	5.5	< 8.5 UJ	5.3	NA	NA	NA	NA
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	NA	NA	< 0.91 U	NA	NA	NA	< 0.9 U	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	NA	NA	12	< 1.8 U	NA	NA	6.2 J	2.7	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	NA	NA	< 8.4 UJ	< 0.91 U	NA	NA	< 8.5 UJ	< 0.9 U	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTriA/PFTriDA)	NSL	ng/L	NA	NA	< 8.4 U	< 0.91 U	NA	NA	< 8.5 U	< 0.9 U	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	NA	NA	< 8.4 U	< 0.91 U	NA	NA	< 8.5 UJ	< 0.9 U	NA	NA	NA	NA
VOCs (SW8260)														
1,1,1,2-Tetrachloroethane	5	µg/L	< 1.0 U	< 0.35 U	NA	NA	< 1.0 U	< 0.35 U	NA	NA	< 20 U	< 0.35 U	< 0.35 U	< 0.35 U
1,1,1-Trichloroethane (TCA)	5	µg/L	< 1.0 U	< 0.82 U	< 1.0 U	< 1 U	< 1.0 U	< 0.82 U	< 1.0 U	< 1 U	< 20 U	< 0.82 U	< 0.82 U	< 0.82 U
1,1,2,2-Tetrachloroethane	5	µg/L	< 1.0 U	< 0.21 U	< 1.0 U	< 0.5 U	< 1.0 U	< 0.21 U	< 1.0 U	< 0.5 U	< 20 U	< 0.21 U	< 0.21 U	< 0.21 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 1.0 U	< 0.31 U	< 1.0 U	< 1 U	< 1.0 U	< 0.31 U	< 1.0 U	< 1 U	< 20 U	< 0.31 U	< 0.31 U	< 0.31 U
1,1,2-Trichloroethane	1	µg/L	< 1.0 U	< 0.23 U	< 1.0 U	< 1 U	< 1.0 U	< 0.23 U	< 1.0 U	< 1 U	< 20 U	< 0.23 U	< 0.23 U	< 0.23 U
1,1-Dichloroethane	5	µg/L	< 1.0 U	< 0.38 U	0.27 J	0.28 J	< 1.0 U	< 0.38 U	< 1.0 U	< 1 U	< 20 U	< 0.38 U	< 0.38 U	0.90 J
1,1-Dichloroethene	5	µg/L	< 1.0 U	< 0.29 U	< 1.0 U	< 1 U	< 1.0 U	< 0.29 U	< 1.0 U	< 1 U	< 20 U	< 0.29 U	< 0.29 U	< 0.29 U
1,1-Dichloropropene	5	µg/L	< 1.0 U	< 0.72 U	NA	NA	< 1.0 U	< 0.72 U	NA	NA	< 20 U	< 0.72 U	< 0.72 U	< 0.72 U
1,2,3-Trichlorobenzene	5	µg/L	< 1.0 U	< 0.41 U	NA	< 5 U	< 1.0 U	< 0.41 U	NA	< 5 U	< 20 U	< 0.41 U	< 0.41 U	< 0.41 U
1,2,3-Trichloropropane	0.04	µg/L	< 1.0 U	< 0.89 U	NA	NA	< 1.0 U	< 0.89 U	NA	NA	< 20 U	< 0.89 U	< 0.89 U	< 0.89 U
1,2,4-Trichlorobenzene	5	µg/L	< 1.0 U	< 0.41 U	< 1.0 U	< 1 U	< 1.0 U	< 0.41 U	< 1.0 U	< 1 U	< 20 U	< 0.41 U	< 0.41 U	< 0.41 U
1,2,4-Trimethylbenzene	NSL	µg/L	< 1.0 U	< 0.75 U	< 1.0 U	NA	< 1.0 U	< 0.75 U	< 1.0 U	NA	140	0.91 J	< 0.75 U	130
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 1.0 U	< 0.39 U	< 1.0 U	< 5 U	< 1.0 U	< 0.39 U	< 1.0 U	< 5 U	< 20 U	< 0.39 U	< 0.39 U	< 0.39 U
1,2-Dibromochloroethane (Ethylene Dibromide)	NSL	µg/L	< 1.0 U	< 0.73 U	< 1.0 U	< 0.5 U	< 1.0 U	< 0.73 U	< 1.0 U	< 0.5 U	< 20 U	< 0.73 U	< 0.73 U	< 0.73 U
1,2-Dichlorobenzene	3	µg/L	< 1.0 U	< 0.79 U	< 1.0 U	0.33 J	< 1.0 U	< 0.79 U	< 1.0 U	< 1 U	< 20 U	1.1	< 0.79 U	12
1,2-Dichloroethane	0.6	µg/L	< 1.0 U	< 0.21 U	< 1.0 U	< 1 U	< 1.0 U	< 0.21 U	< 1.0 U	< 1 U	< 20 U	< 0.21 U	< 0.21 U	< 0.21 U
1,2-Dichloropropane	1	µg/L	< 1.0 U	< 0.72 U	< 1.0 U	< 1 U	< 1.0 U	< 0.72 U	< 1.0 U	< 1 U	< 20 U	< 0.72 U	< 0.72 U	< 0.72 U
1,3,5-Trimethylbenzene (Mesitylene)	NSL	µg/L	< 1.0 U	< 0.77 U	< 1.0 U	NA	< 1.0 U	< 0.77 U	< 1.0 U	NA	39	< 0.77 U	< 0.77 U	< 0.77 U
1,3-Dichlorobenzene	3	µg/L	< 1.0 U	< 0.78 U	< 1.0 U	< 1 U	< 1.0 U	< 0.78 U	< 1.0 U	< 1 U	< 20 U	< 0.78 U	< 0.78 U	< 0.78 U
1,3-Dichloropropane	5	µg/L	< 1.0 U	< 0.75 U	NA	NA	< 1.0 U	< 0.75 U	NA	NA	< 20 U	< 0.75 U	< 0.75 U	< 0.75 U
1,4-Dichlorobenzene	3	µg/L	< 1.0 U	< 0.84 U	< 1.0 U	< 1 U	< 1.0 U	< 0.84 U	< 1.0 U	< 1 U	< 20 U	< 0.84 U	< 0.84 U	< 0.84 U
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	< 0.20 U	NA	NA	NA	< 0.20 U	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	NSL	µg/L	< 1.0 U	< 0.40 U	NA	NA	< 1.0 U	< 0.40 U	NA	NA	< 20 U	< 0.40 U	< 0.40 U	< 0.40 U
2-Chlorotoluene	NSL	µg/L	< 1.0 U	< 0.86 U	NA	NA	< 1.0 U	< 0.86 U	NA	NA	< 20 U	< 0.86 U	< 0.86 U	< 0.86 U
2-Hexanone	50	µg/L	< 5.0 U	< 1.2 U	< 5.0 U	< 10 U	< 5.0 U	< 1.2 U	< 5.0 U	< 10 U	< 100 U	< 1.2 U	< 1.2 U	< 1.2 U
4-Chlorotoluene	NSL	µg/L	< 1.0 U	< 0.84 U	NA	NA	< 1.0 U	< 0.84 U	NA	NA	< 20 U	< 0.84 U	< 0.84 U	< 0.84 U
Acetone	50	µg/L	< 10 U	< 3.0 U	< 5.0 U	< 50 U	< 10 U	< 3.0 J	< 5.0 U	< 50 U	< 200 U	< 3.0 U	< 3.0 U	< 3.0 U
Benzene	1	µg/L	< 1.0 U	< 0.41 U	< 1.0 U	< 1 U	< 1.0 U	< 0.41 U	< 1.0 U	< 1 U	< 20 U	< 0.41 U	< 0.41 U	< 0.41 U
Bromobenzene	NSL	µg/L	< 1.0 U	< 0.80 U	NA	NA	< 1.0 U	< 0.80 U	NA	NA	< 20 U	< 0.80 U	< 0.80 U	< 0.80 U
Bromochloromethane	5	µg/L	< 1.0 U	< 0.87 U	NA	< 1 U	< 1.0 U	< 0.87 U	NA	< 1 U	< 20 U	< 0.87 U	< 0.87 U	< 0.87 U
Bromodichloromethane	50	µg/L	< 1.0 U	< 0.39 U	< 1.0 U	< 0.5 U	< 1.0 U	< 0.39 U	< 1.0 U	< 0.5 U	< 20 U	< 0.39 U	< 0.39 U	< 0.39 U
Bromoform	50	µg/L	< 1.0 U	< 0.26 U	< 1.0 U	< 1 U	< 1.0 U	< 0.26 U	< 1.0 U	< 1 U	< 20 U	< 0.26 U	< 0.26 U	< 0.26 U

Notes:

(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).

µg/L = Microgram(s) per liter

J = Concentration is estimated

J+ = Concentration is estimated, biased high

NA = Not analyzed

ng/L = Nanogram(s) per liter

NSL - No screening level available

U = Analyte not detected

Concentrations exceeding the screening level are shaded gray

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Analyte	Location ID		MW-19	MW-19	MW-19	MW-19	MW-20	MW-20	MW-20	MW-20	MW-21	MW-21	MW-21	MW-21
	Sample Date		10/15/2015	3/15/2017	5/16/2019	5/23/2023	10/15/2015	3/15/2017	5/16/2019	5/23/2023	10/15/2015	3/8/2016	5/31/2016	9/14/2016
	Parent Sample ID		MW-19-20151015	MW-19 031517	MW-19 051619-20190516	518014-MW-19	MW-20-20151015	MW-20 031517	MW-20 051619-20190516	518014-MW-20	MW-21-20151015	MW-21 030816-20160308	MW-21 053116	MW-21 091416
	NYSDEC AWQS ¹	Unit												
Bromomethane	5	µg/L	< 1.0 U	< 0.69 U	< 1.0 U	< 2 U	< 1.0 U	< 0.69 U	< 1.0 U	< 2 U	< 20 U	< 0.69 U	< 0.69 U	< 0.69 U
Carbon Disulfide	60	µg/L	< 1.0 U	< 0.19 U	< 1.0 U	< 5 U	< 1.0 U	< 0.19 U	< 1.0 U	< 5 U	< 20 U	< 0.19 U	< 0.19 U	< 0.19 U
Carbon Tetrachloride	5	µg/L	< 1.0 U	< 0.27 U	< 1.0 U	< 5 U	< 1.0 U	< 0.27 U	< 1.0 U	< 5 U	< 20 U	< 0.27 U	< 0.27 U	< 0.27 U
Chlorobenzene	5	µg/L	< 1.0 U	< 0.75 U	< 1.0 U	< 1 U	< 1.0 U	< 0.75 U	< 1.0 U	< 1 U	< 20 U	< 0.75 U	< 0.75 U	< 0.75 U
Chloroethane	5	µg/L	< 1.0 U	< 0.32 U	< 1.0 U	< 2 U	< 1.0 U	< 0.32 U	< 1.0 U	< 2 U	< 20 U	< 0.32 U	< 0.32 U	0.72 J
Chloroform	7	µg/L	< 1.0 U	< 0.34 U	< 1.0 U	< 2 U	< 1.0 U	0.37 J	< 1.0 U	0.91 J	< 20 U	< 0.34 U	< 0.34 U	< 0.34 U
Chloromethane (Methyl Chloride)	NSL	µg/L	< 1.0 U	< 0.35 U	< 1.0 U	< 2 U	< 1.0 U	< 0.35 U	< 1.0 U	< 2 U	< 20 U	< 0.35 U	< 0.35 U	< 0.35 U
Cis-1,2-Dichloroethylene	5	µg/L	< 1.0 U	< 0.81 U	0.29 J	< 1 U	< 1.0 U	< 0.81 U	< 1.0 U	< 1 U	< 20 U	2.5	1.8	14
Cis-1,3-Dichloropropene	0.4	µg/L	< 1.0 U	< 0.36 U	< 1.0 U	< 0.5 U	< 1.0 U	< 0.36 U	< 1.0 U	< 0.5 U	< 20 U	< 0.36 U	< 0.36 U	< 0.36 U
Cyclohexane	NSL	µg/L	< 1.0 U	< 0.18 U	< 1.0 U	< 5 U	< 1.0 U	< 0.18 U	< 1.0 U	< 5 U	< 20 U	< 0.18 U	< 0.18 U	1.7
Cymene	NSL	µg/L	< 1.0 U	< 0.31 U	< 1.0 U	NA	< 1.0 U	< 0.31 U	< 1.0 U	NA	12 J	< 0.31 U	< 0.31 U	< 0.31 U
Dibromochloromethane	50	µg/L	< 1.0 U	< 0.32 U	< 1.0 U	< 0.5 U	< 1.0 U	< 0.32 U	< 1.0 U	< 0.5 U	< 20 U	< 0.32 U	< 0.32 U	< 0.32 U
Dibromomethane	5	µg/L	< 1.0 U	< 0.41 U	NA	NA	< 1.0 U	< 0.41 U	NA	NA	< 20 U	< 0.41 U	< 0.41 U	< 0.41 U
Dichlorodifluoromethane	5	µg/L	< 1.0 U	< 0.68 U	< 1.0 U	< 2 U	< 1.0 U	< 0.68 U	< 1.0 U	< 2 U	< 20 U	< 0.68 U	< 0.68 U	< 0.68 U
Ethylbenzene	5	µg/L	< 1.0 U	< 0.74 U	< 1.0 U	< 1 U	< 1.0 U	< 0.74 U	< 1.0 U	< 1 U	43	< 0.74 U	< 0.74 U	70
Hexachlorobutadiene	0.5	µg/L	< 1.0 U	< 0.28 U	NA	NA	< 1.0 U	< 0.28 U	NA	NA	< 20 U	< 0.28 U	< 0.28 U	< 0.28 U
Iodomethane (Methyl Iodide)	NSL	µg/L	< 1.0 U	< 0.30 U	NA	NA	< 1.0 U	< 0.30 U	NA	NA	< 20 U	< 0.30 U	< 0.30 U	< 0.30 U
Isopropylbenzene (Cumene)	5	µg/L	< 1.0 U	< 0.79 U	< 1.0 U	< 1 U	< 1.0 U	< 0.79 U	< 1.0 U	< 1 U	< 20 U	< 0.79 U	< 0.79 U	19
Methyl Acetate	NSL	µg/L	< 2.5 U	< 1.3 U	< 5.0 U	< 1 U	< 2.5 U	< 1.3 U	< 5.0 U	< 1 U	< 50 U	< 1.3 U	< 1.3 U	< 1.3 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	5.8 J	< 1.3 U	< 5.0 U	< 20 U	1.5 J	< 1.3 U	< 5.0 U	< 20 U	< 200 U	< 1.3 U	< 1.3 U	< 1.3 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 5.0 U	< 2.1 U	< 5.0 U	< 10 U	< 5.0 U	< 2.1 U	< 5.0 U	< 10 U	< 100 U	< 2.1 U	< 2.1 U	< 2.1 U
Methylcyclohexane	NSL	µg/L	< 1.0 U	< 0.16 U	< 1.0 U	< 1 U	< 1.0 U	< 0.16 U	< 1.0 U	< 1 U	< 20 U	< 0.16 U	< 0.16 U	4.2
Methylene Chloride	5	µg/L	< 1.0 U	< 0.44 U	< 1.0 U	< 5 U	< 1.0 U	< 0.44 U	< 1.0 U	< 5 U	< 20 U	< 0.44 U	< 0.44 U	< 0.44 U
m-P-Xylene	NSL	µg/L	< 2.0 U	< 0.66 U	< 1.0 U	NA	< 2.0 U	< 0.66 U	< 1.0 U	NA	54	< 0.66 U	< 0.66 U	1.2 J
Naphthalene	10	µg/L	< 1.0 U	< 0.43 U	< 1.0 U	NA	< 1.0 U	< 0.43 U	< 1.0 U	NA	< 20 U	< 0.43 U	< 0.43 U	< 0.43 U
N-Butylbenzene	5	µg/L	< 1.0 U	< 0.64 U	< 1.0 U	NA	< 1.0 U	< 0.64 U	< 1.0 U	NA	30	< 0.64 U	< 0.64 U	18
N-Propylbenzene	NSL	µg/L	< 1.0 U	< 0.69 U	< 1.0 U	NA	< 1.0 U	< 0.69 U	< 1.0 U	NA	15 J	< 0.69 U	< 0.69 U	28
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	< 1.0 U	< 0.76 U	< 1.0 U	NA	< 1.0 U	< 0.76 U	< 1.0 U	NA	120	< 0.76 U	< 0.76 U	42
Sec-Butylbenzene	5	µg/L	< 1.0 U	< 0.75 U	< 1.0 U	NA	< 1.0 U	< 0.75 U	< 1.0 U	NA	< 20 U	< 0.75 U	< 0.75 U	< 0.75 U
Styrene	5	µg/L	< 1.0 U	< 0.73 U	< 1.0 U	< 1 U	< 1.0 U	< 0.73 U	< 1.0 U	< 1 U	< 20 U	< 0.73 U	< 0.73 U	< 0.73 U
T-Butylbenzene	5	µg/L	< 1.0 U	< 0.81 U	< 1.0 U	NA	< 1.0 U	< 0.81 U	< 1.0 U	NA	< 20 U	< 0.81 U	< 0.81 U	< 0.81 U
Tert-Butyl Methyl Ether	10	µg/L	< 1.0 U	< 0.16 U	< 1.0 U	< 1 U	< 1.0 U	< 0.16 U	< 1.0 U	< 1 U	< 20 U	< 0.16 U	< 0.16 U	< 0.16 U
Tetrachloroethylene (PCE)	5	µg/L	< 1.0 U	< 0.36 U	< 1.0 U	< 1 U	< 1.0 U	< 0.36 U	< 1.0 U	< 1 U	< 20 U	< 0.36 U	< 0.36 U	0.52 J
Toluene	5	µg/L	< 1.0 U	< 0.51 U	< 1.0 U	< 1 U	< 1.0 U	< 0.51 U	< 1.0 U	< 1 U	< 20 U	< 0.51 U	< 0.51 U	< 0.51 U
Trans-1,2-Dichloroethene	5	µg/L	< 1.0 U	< 0.90 U	< 1.0 U	< 1 U	< 1.0 U	< 0.90 U	< 1.0 U	< 1 U	< 20 U	< 0.90 U	< 0.90 U	< 0.90 U
Trans-1,3-Dichloropropene	0.4	µg/L	< 1.0 U	< 0.37 U	< 1.0 U	< 0.5 U	< 1.0 U	< 0.37 U	< 1.0 U	< 0.5 U	< 20 U	< 0.37 U	< 0.37 U	< 0.37 U
Trichloroethylene (TCE)	5	µg/L	< 1.0 U	< 0.46 U	< 1.0 U	< 1 U	0.49 J	< 0.46 U	< 1.0 U	< 1 U	< 20 U	< 0.46 U	< 0.46 U	0.63 J
Trichlorofluoromethane	5	µg/L	< 1.0 U	< 0.88 U	< 1.0 U	< 2 U	< 1.0 U	< 0.88 U	< 1.0 U	< 2 U	< 20 U	< 0.88 U	< 0.88 U	< 0.88 U
Vinyl Acetate	NSL	µg/L	< 5.0 U	< 0.85 U	NA	NA	< 5.0 U	< 0.85 U	NA	NA	< 100 U	< 0.85 U	< 0.85 U	< 0.85 U
Vinyl Chloride	2	µg/L	< 1.0 U	< 0.90 U	< 1.0 U	< 2 U	< 1.0 U	< 0.90 U	< 1.0 U	< 2 U	< 20 U	< 0.90 U	< 0.90 U	< 0.90 U
Xylenes	5	µg/L	< 2.0 U	< 0.66 U	< 2.0 U	< 1 U	< 2.0 U	< 0.66 U	< 2.0 U	< 1 U	170	< 0.66 U	< 0.66 U	43
Pesticides (SW8081)														
Alachlor	NSL	µg/L	NA	NA	NA	< 0.18 U	NA	NA	NA	< 0.18 U	NA	NA	NA	NA
Aldrin	NSL	µg/L	< 0.053 U	< 0.0081 U	< 0.020 U	< 0.045 U	< 0.051 U	< 0.0081 U	< 0.020 U	< 0.046 U	< 0.25 U	< 0.016 U	< 0.0076 U	< 0.038 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	NSL	µg/L	< 0.053 U	< 0.0077 U	< 0.020 U	< 0.045 U	< 0.051 U	< 0.0077 U	< 0.020 U	< 0.046 U	< 0.25 U	0.030 J	< 0.0072 U	< 0.036 U
Alpha Endosulfan	NSL	µg/L	< 0.053 U	< 0.011 U	< 0.020 U	< 0.045 U	< 0.051 U	< 0.011 U	< 0.020 U	< 0.046 U	< 0.25 U	< 0.022 U	< 0.010 U	< 0.051 U
Beta Bhc (Beta Hexachlorocyclohexane)	NSL	µg/L	< 0.053 U	< 0.025 U	< 0.020 U	< 0.045 U	< 0.051 U	< 0.025 U	< 0.020 U	< 0.046 U	< 0.25 U	< 0.049 U	< 0.023 U	< 0.12 U
Beta Endosulfan	NSL	µg/L	< 0.053 U	< 0.012 U	< 0.020 U	< 0.073 U	< 0.051 U	< 0.012 U	< 0.020 U	< 0.073 U	< 0.25 U	< 0.024 U	< 0.011 U	< 0.056 U
Chlordane	0.05	µg/L	NA	NA	NA	< 0.18 U	NA	NA	NA	< 0.18 U	NA	NA	NA	NA
Chlordane (Technical)	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-Chlordane	NSL	µg/L	< 0.053 U	< 0.015 U	< 0.020 U	NA	< 0.051 U	< 0.015 U	< 0.020 U	NA	< 0.25 U	< 0.029 U	< 0.014 U	< 0.069 U
Delta BHC (Delta Hexachlorocyclohexane)	NSL	µg/L	< 0.053 U	< 0.010 U	< 0.020 U	< 0.045 U	< 0.051 U	< 0.010 U	< 0.020 U	< 0.046 U	< 0.25 U	< 0.020 U	0.014 J	< 0.047 U
Dieldrin	0.004	µg/L	< 0.053 U	< 0.0098 U	< 0.020 U	< 0.0018 U	< 0.051 U	< 0.0098 U	< 0.020 U	< 0.0018 U	< 0.25 U	< 0.019 U	< 0.0092 U	< 0.046 U
Endosulfan Sulfate	NSL	µg/L	< 0.053 U	< 0.016 U	< 0.020 U	< 0.073 U	< 0.051 U	< 0.016 U	< 0.020 U	< 0.073 U	< 0.25 U	< 0.031 U	< 0.015 U	< 0.073 U
Endrin	NSL	µg/L	< 0.053 U	< 0.014 U	< 0.020 U	< 0.073 U	< 0.051 U	< 0.014 U	< 0.020 U	< 0.073 U	< 0.25 U	< 0.027 U	< 0.013 U	< 0.064 U
Endrin Aldehyde	5	µg/L	< 0.053 U	< 0.016 U	< 0.020 U	< 0.073 U	< 0.051 U	< 0.016 U	< 0.020 U	< 0.073 U	< 0.25 U	< 0.032 U	< 0.015 U	< 0.076 U
Endrin Ketone	5	µg/L	< 0.053 U	< 0.012 U	< 0.020 U	< 0.073 U	< 0.051 U	< 0.012 U	< 0.020 U	< 0				

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			MW-19 10/15/2015 MW-19-20151015	MW-19 3/15/2017 MW-19 031517	MW-19 5/16/2019 MW-19 051619-20190516	MW-19 5/23/2023 518014-MW-19	MW-20 10/15/2015 MW-20-20151015	MW-20 3/15/2017 MW-20 031517	MW-20 5/16/2019 MW-20 051619-20190516	MW-20 5/23/2023 518014-MW-20	MW-21 10/15/2015 MW-21-20151015	MW-21 3/8/2016 030816-20160308	MW-21 5/31/2016 MW-21 053116	MW-21 9/14/2016 MW-21 091416
Analyte	NYSDEC AWQS ¹	Unit												
SVOCs (SW8270)														
1,2,4,5-Tetrachlorobenzene	NSL	µg/L	NA	NA	NA	< 9.3 U	NA	NA	NA	< 9.2 U	NA	NA	NA	NA
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	< 0.20 U	< 0.40 U	0.11 J	NA	< 0.20 U	< 0.40 U	< 0.2 U	NA	NA	NA	NA
2,4,5-Trichlorophenol	NSL	µg/L	< 5.0 U	< 0.48 U	< 10 U	< 9.3 U	< 5.0 U	< 0.48 U	< 10 U	< 9.2 U	< 5.7 U	< 0.44 U	< 0.45 U	< 0.45 U
2,4,6-Trichlorophenol	NSL	µg/L	< 5.0 U	< 0.61 U	< 10 U	< 9.3 U	< 5.0 U	< 0.61 U	< 10 U	< 9.2 U	< 5.7 U	< 0.56 U	< 0.57 U	< 0.57 U
2,4-Dichlorophenol	5	µg/L	< 5.0 U	< 0.51 U	< 10 U	< 9.3 U	< 5.0 U	< 0.51 U	< 10 U	< 9.2 U	< 5.7 U	< 0.47 U	< 0.47 U	< 0.47 U
2,4-Dimethylphenol	50	µg/L	< 5.0 U	< 0.50 U	< 10 U	< 9.3 U	< 5.0 U	< 0.50 U	< 10 U	< 9.2 U	2.4 J	< 0.46 U	< 0.46 U	< 0.46 U
2,4-Dinitrophenol	10	µg/L	< 10 U	< 2.2 U	< 20 U	< 9.3 UJ	< 10 U	< 2.2 U	< 20 U	< 9.2 UJ	< 11 U	< 2.0 U	< 2.1 U	< 2.1 U
2,4-Dinitrotoluene	5	µg/L	< 5.0 U	< 0.45 U	< 2.0 U	< 9.3 U	< 5.0 U	< 0.45 U	< 2.0 U	< 9.2 U	< 5.7 U	< 0.41 U	< 0.42 U	< 0.41 U
2,6-Dinitrotoluene	5	µg/L	< 5.0 U	< 0.40 U	< 2.0 U	< 9.3 U	< 5.0 U	< 0.40 U	< 2.0 U	< 9.2 U	< 5.7 U	< 0.37 U	< 0.37 U	< 0.37 U
2-Chloronaphthalene	10	µg/L	< 5.0 U	< 0.46 U	< 10 U	< 9.3 U	< 5.0 U	< 0.46 U	< 10 U	< 9.2 U	< 5.7 U	< 0.42 U	< 0.43 U	< 0.43 U
2-Chlorophenol	1	µg/L	< 5.0 U	< 0.53 U	< 10 U	< 9.3 U	< 5.0 U	< 0.53 U	< 10 U	< 9.2 U	< 5.7 U	< 0.49 U	< 0.49 U	< 0.49 U
2-Methylnaphthalene	NSL	µg/L	< 5.0 U	< 0.60 U	< 10 U	< 4.6 U	< 5.0 U	< 0.60 U	< 10 U	< 4.6 U	< 5.7 U	< 0.55 U	< 0.56 U	< 0.56 U
2-Methylphenol (O-Cresol)	NSL	µg/L	< 5.0 U	< 0.40 U	< 10 U	< 9.3 U	< 5.0 U	< 0.40 U	< 10 U	< 9.2 U	< 5.7 U	< 0.37 U	< 0.37 U	< 0.37 U
2-Nitroaniline	5	µg/L	< 10 U	< 0.42 U	< 10 U	< 9.3 U	< 10 U	< 0.42 U	< 10 U	< 9.2 U	< 11 U	< 0.39 U	< 0.39 U	< 0.39 U
2-Nitrophenol	NSL	µg/L	< 5.0 U	< 0.48 U	< 10 U	< 9.3 U	< 5.0 U	< 0.48 U	< 10 U	< 9.2 U	< 5.7 U	< 0.44 U	< 0.45 U	< 0.45 U
3- And 4- Methylphenol (Total)	NSL	µg/L	NA	NA	NA	< 9.3 U	NA	NA	NA	< 9.2 U	NA	NA	NA	NA
3,3'-Dichlorobenzidine	5	µg/L	< 5.0 U	< 0.40 U	< 10 U	< 9.3 U	< 5.0 U	< 0.40 U	< 10 U	< 9.2 U	< 5.7 U	< 0.37 U	< 0.37 U	< 0.37 U
3-Nitroaniline	5	µg/L	< 10 U	< 0.48 U	< 10 U	< 9.3 U	< 10 U	< 0.48 U	< 10 U	< 9.2 U	< 11 U	< 0.44 U	< 0.45 U	< 0.45 U
4,6-Dinitro-2-Methylphenol	NSL	µg/L	< 10 U	< 2.2 U	< 20 U	< 19 UJ	< 10 U	< 2.2 U	< 20 U	< 18 UJ	< 11 U	< 2.0 U	< 2.0 U	< 2.0 U
4-Bromophenyl Phenyl Ether	NSL	µg/L	< 5.0 U	< 0.45 U	< 10 U	< 9.3 U	< 5.0 U	< 0.45 U	< 10 U	< 9.2 U	< 5.7 U	< 0.42 U	< 0.42 U	< 0.42 U
4-Chloro-3-Methylphenol	NSL	µg/L	< 5.0 U	< 0.45 U	< 10 U	< 9.3 U	< 5.0 U	< 0.45 U	< 10 U	< 9.2 U	< 5.7 U	< 0.42 U	< 0.42 U	< 0.42 U
4-Chloroaniline	5	µg/L	< 5.0 U	< 0.59 U	< 10 U	< 9.3 U	< 5.0 U	< 0.59 U	< 10 U	< 9.2 U	< 5.7 U	< 0.54 U	< 0.55 U	< 0.55 U
4-Chlorophenyl Phenyl Ether	NSL	µg/L	< 5.0 U	< 0.35 U	< 10 U	< 9.3 U	< 5.0 U	< 0.35 U	< 10 U	< 9.2 U	< 5.7 U	< 0.32 U	< 0.33 U	< 0.32 U
4-Methylphenol (P-Cresol)	NSL	µg/L	< 10 U	< 0.36 U	< 10 U	NA	< 10 U	< 0.36 U	< 10 U	NA	1.7 J	< 0.33 U	< 0.33 U	< 0.33 U
4-Nitroaniline	5	µg/L	< 10 U	< 0.25 U	< 10 U	< 9.3 U	< 10 U	< 0.25 U	< 10 U	< 9.2 U	< 11 U	< 0.23 U	< 0.23 U	< 0.23 U
4-Nitrophenol	NSL	µg/L	< 10 U	< 1.5 U	< 20 U	< 9.3 U	< 10 U	< 1.5 U	< 20 U	< 9.2 U	< 11 U	< 1.4 U	< 1.4 U	< 1.4 U
Acenaphthene	20	µg/L	< 5.0 U	< 0.41 U	< 10 U	< 4.6 U	< 5.0 U	< 0.41 U	< 10 U	< 4.6 U	< 5.7 U	< 0.38 U	< 0.38 U	< 0.38 U
Acenaphthylene	NSL	µg/L	< 5.0 U	< 0.38 U	< 10 U	< 4.6 U	< 5.0 U	< 0.38 U	< 10 U	< 4.6 U	< 5.7 U	< 0.35 U	< 0.35 U	< 0.35 U
Acetophenone	NSL	µg/L	< 5.0 U	< 0.54 U	< 10 U	< 9.3 U	< 5.0 U	< 0.54 U	< 10 U	< 9.2 U	< 5.7 U	< 0.50 U	< 0.50 U	< 0.50 U
Anthracene	50	µg/L	< 5.0 U	< 0.28 U	< 10 U	< 4.6 U	< 5.0 U	< 0.28 U	< 10 U	< 4.6 U	< 5.7 U	< 0.26 U	< 0.26 U	< 0.26 U
Atrazine	NSL	µg/L	< 5.0 U	< 0.46 U	< 2.0 U	< 19 U	< 5.0 U	< 0.46 U	< 2.0 U	< 18 U	< 5.7 U	< 0.42 U	< 0.43 U	< 0.43 U
Benzaldehyde	NSL	µg/L	< 5.0 U	< 0.27 U	< 10 U	< 9.3 UJ	< 5.0 U	< 0.27 U	< 10 U	< 9.2 UJ	< 5.7 U	< 0.25 U	< 0.25 U	< 0.25 U
Benzo(A)Anthracene	0.002	µg/L	< 5.0 U	< 0.36 U	< 1.0 U	< 4.6 U	< 5.0 U	< 0.36 U	< 1.0 U	< 4.6 U	< 5.7 U	< 0.33 U	< 0.33 U	< 0.33 U
Benzo(A)Pyrene	NSL	µg/L	< 5.0 U	< 0.47 U	< 1.0 U	< 4.6 U	< 5.0 U	< 0.47 U	< 1.0 U	< 4.6 U	< 5.7 U	< 0.43 U	< 0.44 U	< 0.44 U
Benzo(B)Fluoranthene	0.002	µg/L	< 5.0 U	< 0.34 U	< 2.0 U	< 4.6 U	< 5.0 U	< 0.34 U	< 2.0 U	< 4.6 U	< 5.7 U	< 0.31 U	< 0.32 U	< 0.32 U
Benzo(G,H,I)Perylene	NSL	µg/L	< 5.0 U	< 0.35 U	< 10 U	< 4.6 U	< 5.0 U	< 0.35 U	< 10 U	< 4.6 U	< 5.7 U	< 0.32 U	< 0.33 U	< 0.32 U
Benzo(K)Fluoranthene	0.002	µg/L	< 5.0 U	< 0.73 U	< 1.0 U	< 4.6 U	< 5.0 U	< 0.73 U	< 1.0 U	< 4.6 U	< 5.7 U	< 0.67 U	< 0.68 U	< 0.68 U
Benzyl Butyl Phthalate	50	µg/L	0.52 J	< 1.0 U	< 10 U	< 9.3 UJ	0.49 J	< 1.0 U	< 10 U	< 9.2 UJ	0.61 J	< 0.39 U	< 0.93 U	< 0.93 U
Biphenyl (Diphenyl or 1,1'-Biphenyl)	5	µg/L	< 5.0 U	< 0.65 U	< 10 U	< 19 U	< 5.0 U	< 0.65 U	< 10 U	< 18 U	< 5.7 U	< 0.60 U	< 0.61 U	< 0.61 U
Bis(2-Chloroethoxy) Methane	5	µg/L	< 5.0 U	< 0.35 U	< 10 U	< 9.3 U	< 5.0 U	< 0.35 U	< 10 U	< 9.2 U	< 5.7 U	< 0.32 U	< 0.33 U	< 0.32 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	µg/L	< 5.0 U	< 0.40 U	< 1.0 U	< 9.3 U	< 5.0 U	< 0.40 U	< 1.0 U	< 9.2 U	< 5.7 U	< 0.37 U	< 0.37 U	< 0.37 U
Bis(2-Chloroisopropyl) Ether	5	µg/L	< 5.0 U	< 0.52 U	< 10 U	< 9.3 U	< 5.0 U	< 0.52 U	< 10 U	< 9.2 U	< 5.7 U	< 0.48 U	< 0.48 U	< 0.48 U
Bis(2-Ethylhexyl) Phthalate	5	µg/L	< 5.0 U	< 2.2 U	< 2.0 U	< 9.3 UJ	< 5.0 U	< 2.2 U	< 2.0 U	< 9.2 UJ	< 5.7 U	< 1.7 U	< 2.0 U	< 2.0 U
Caprolactam	NSL	µg/L	< 5.0 U	< 2.2 U	< 10 U	< 9.3 UJ	< 5.0 U	< 2.2 U	< 10 U	< 9.2 UJ	< 5.7 U	< 2.0 U	< 2.0 U	< 2.0 U
Carbazole	NSL	µg/L	< 5.0 U	< 0.30 U	< 10 U	< 9.3 U	< 5.0 U	< 0.30 U	< 10 U	< 9.2 U	< 5.7 U	< 0.28 U	< 0.28 U	< 0.28 U
Chrysene	0.002	µg/L	< 5.0 U	< 0.33 U	< 2.0 U	< 4.6 U	< 5.0 U	< 0.33 U	< 2.0 U	< 4.6 U	< 5.7 U	< 0.30 U	< 0.31 U	< 0.31 U
Dibenz(A,H)Anthracene	NSL	µg/L	< 5.0 U	< 0.42 U	< 1.0 U	< 4.6 U	< 5.0 U	< 0.42 U	< 1.0 U	< 4.6 U	< 5.7 U	< 0.39 U	< 0.39 U	< 0.39 U
Dibenzofuran	NSL	µg/L	< 10 U	< 0.51 U	< 10 U	< 4.6 U	< 10 U	< 0.51 U	< 10 U	< 4.6 U	< 11 U	< 0.47 U	< 0.47 U	< 0.47 U
Diethyl Phthalate	50	µg/L	< 5.0 U	< 0.22 U	< 10 U	< 9.3 U	< 5.0 U	< 0.22 U	< 10 U	< 9.2 U	< 5.7 U	< 0.20 U	< 0.20 U	< 0.20 U
Dimethyl Phthalate	50	µg/L	< 5.0 U	< 0.36 U	< 10 U	< 9.3 U	< 5.0 U	< 0.36 U	< 10 U	< 9.2 U	< 5.7 U	< 0.33 U	< 0.33 U	< 0.33 U
Di-N-Butyl Phthalate	50	µg/L	< 5.0 U	< 0.31 U	< 10 U	< 9.3 U	< 5.0 U	< 0.31 U	< 10 U	< 9.2 U	0.71 J	< 0.29 U	< 0.29 U	0.96 J
Di-N-Octylphthalate	50	µg/L	0.69 J	< 0.47 U	< 10 U	< 9.3 UJ	0.69 J	< 0.47 U	< 10 U	< 9.2 UJ	0.93 J	< 0.43 U	< 0.44 U	< 0.44 U
Fluoranthene	50	µg/L	< 5.0 U	< 0.40 U	< 10 U	< 4.6 U	< 5.0 U	< 0.40 U	< 10 U	< 4.6 U	< 5.7 U	< 0.37 U	< 0.37 U	< 0.37 U
Fluorene	50	µg/L	< 5.0 U	< 0.36 U	< 10 U	< 4.6 U	< 5.0 U	< 0.36 U	< 10 U	< 4.6 U	< 5.7 U	< 0.33 U	< 0.33 U	< 0.33 U
Hexachlorobenzene	0.04	µg/L	< 5.0 U	< 0.51 U										

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Analyte	Location ID		MW-21	MW-21	MW-21	MW-21	MW-21	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22
	Sample Date		12/6/2016	3/17/2017	6/13/2017	5/16/2019	5/23/2023	10/14/2015	12/8/2015	3/8/2016	3/8/2016	5/31/2016	9/14/2016	12/7/2016
	Parent Sample ID		MW-21 12016	MW-21 031717	MW-21 061317	MW-21 051619-20190516	518014-MW-21	MW-22-20151014	MW-22 120815-20151208	MW-22 030816-20160308	DUP-1 030816-20160308 MW-22 030816-20160308	MW-22 030816-20160308	MW-22 091416	MW-22 12016
	NYSDEC AWQS ¹	Unit												
PFAS (E537/E1633)														
11-Chloroicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NSL	ng/L	NA	NA	NA	NA	< 3.6 U	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	< 82 U	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	< 82 U	NA	NA	NA	NA	NA	NA	NA
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	NA	NA	NA	NA	< 82 UJ	8.4	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	< 9.1 U	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.91 U	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NSL	ng/L	NA	NA	NA	NA	< 82 UJ	< 0.91 U	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	< 9.1 U	NA	NA	NA	NA	NA	NA
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	NA	NA	NA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	NA	NA	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	NA	NA	NA
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	NA	1.1 J	< 2.0 U	5.4 J	3.8	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic Acid	NSL	ng/L	NA	NA	NA	< 8.2 U	< 3.6 U	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	NA	NA	NA	< 8.2 U	< 0.91 U	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	NSL	ng/L	NA	NA	NA	< 8.2 U	< 0.91 U	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	NA	NA	NA	< 0.91 U	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	NA	NA	NA	NA	< 8.2 UJ	< 0.91 U	NA	NA	NA	NA	NA	NA
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	NA	NA	NA	< 8.2 U	2.1	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	NA	< 0.80 U	5	< 8.2 U	3.4	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	NA	1.5 J	3	< 8.2 UJ	4.1	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	NA	NA	NA	< 8.2 U	3.3	NA	NA	NA	NA	NA	NA	NA
Perfluoronananesulfonic Acid (PFNS)	NSL	ng/L	NA	NA	NA	NA	< 0.91 U	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	NSL	ng/L	NA	1.4 J	1.4 J	< 8.2 UJ	1.5	NA	NA	NA	NA	NA	NA	NA
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	NA	NA	NA	< 8.2 U	4.2	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	NA	350	310	510 J	190	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	6.7	ng/L	NA	16	27	7.0 J	19	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	NA	NA	NA	1.1	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	NA	NA	NA	3.2 J	< 1.8 U	NA	NA	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	NA	NA	NA	< 8.2 UJ	< 0.91 U	NA	NA	NA	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTriA/PFTriDA)	NSL	ng/L	NA	NA	NA	< 8.2 U	< 0.91 U	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	NA	NA	NA	< 8.2 U	< 0.91 U	NA	NA	NA	NA	NA	NA	NA
VOCs (SW8260)														
1,1,1,2-Tetrachloroethane	5	µg/L	< 0.35 U	< 0.35 U	< 1.0 U	NA	NA	< 5.0 U	< 10 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U
1,1,1-Trichloroethane (TCA)	5	µg/L	< 0.82 U	< 0.82 U	< 1.0 U	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 4.1 U	< 4.1 U	< 4.1 U	< 4.1 U	< 4.1 U
1,1,2,2-Tetrachloroethane	5	µg/L	< 0.21 U	< 0.21 U	< 1.0 U	< 1.0 U	< 0.5 U	< 5.0 U	< 10 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 0.31 U	< 0.31 U	< 1.0 U	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U
1,1,2-Trichloroethane	1	µg/L	< 0.23 U	< 0.23 U	< 1.0 U	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U
1,1-Dichloroethane	5	µg/L	< 0.38 U	< 0.38 U	< 1.0 U	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U
1,1-Dichloroethene	5	µg/L	< 0.29 U	< 0.29 U	< 1.0 U	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U
1,1-Dichloropropene	5	µg/L	< 0.72 U	< 0.72 U	< 1.0 U	NA	< 5.0 U	< 5.0 U	< 10 U	< 3.6 U	< 3.6 U	< 3.6 U	< 3.6 U	< 3.6 U
1,2,3-Trichlorobenzene	5	µg/L	< 0.41 U	< 0.41 U	< 1.0 U	NA	< 5 U	< 5.0 U	< 10 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U
1,2,3-Trichloropropane	0.04	µg/L	< 0.89 U	< 0.89 U	< 1.0 U	NA	< 5.0 U	< 5.0 U	< 10 U	< 4.5 U	< 4.5 U	< 4.5 U	< 4.5 U	< 4.5 U
1,2,4-Trichlorobenzene	5	µg/L	< 0.41 U	< 0.41 U	< 1.0 U	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U
1,2,4-Trimethylbenzene	NSL	µg/L	< 0.75 U	< 0.75 U	< 1.0 U	< 1.0 U	NA	21	26	19	13	5.9	< 3.8 U	< 3.8 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 0.39 U	< 0.39 U	< 1.0 U	< 1.0 U	< 5 U	< 5.0 U	< 10 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
1,2-Dibromoethane (Ethylene Dibromide)	NSL	µg/L	< 0.73 U	< 0.73 U	< 1.0 U	< 1.0 U	< 0.5 U	< 5.0 U	< 10 U	< 3.7 U	< 3.7 U	< 3.7 U	< 3.7 U	< 3.7 U
1,2-Dichlorobenzene	3	µg/L	< 0.79 U	< 0.79 U	< 1.0 U	< 1.0 U	1.3	< 5.0 U	< 10 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U
1,2-Dichloroethane	0.6	µg/L	< 0.21 U	< 0.21 U	< 1.0 U	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U
1,2-Dichloropropane	1	µg/L	< 0.72 U	< 0.72 U	< 1.0 U	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 3.6 U	< 3.6 U	< 3.6 U	< 3.6 U	< 3.6 U
1,3,5-Trimethylbenzene (Mesitylene)	NSL	µg/L	< 0.77 U	< 0.77 U	< 1.0 U	< 1.0 U	NA	11	13	15	16	5.2	< 3.9 U	< 3.9 U
1,3-Dichlorobenzene	3	µg/L	< 0.78 U	< 0.78 U	< 1.0 U	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 3.9 U	< 3.9 U	< 3.9 U	< 3.9 U	< 3.9 U
1,3-Dichloropropane	5	µg/L	< 0.75 U	< 0.75 U	< 1.0 U	NA	< 5.0 U	< 5.0 U	< 10 U	< 3.8 U	< 3.8 U	< 3.8 U	< 3.8 U	< 3.8 U
1,4-Dichlorobenzene	3	µg/L	< 0.84 U	< 0.84 U	< 1.0 U	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 4.2 U	< 4.2 U	< 4.2 U	< 4.2 U	< 4.2 U
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	< 0.20 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	NSL	µg/L	< 0.40 U	< 0.40 U	< 1.0 U	NA	NA	< 5.0 U	< 10 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
2-Chlorotoluene	NSL	µg/L	< 0.86 U	< 0.86 U	< 1.0 U	NA	NA	< 5.0 U	< 10 U	< 4.3 U	< 4.3 U	< 4.3 U	< 4.3 U	< 4.3 U
2-Hexanone	50	µg/L	< 1.2 U	< 1.2 U	< 5.0 U	< 5.0 U	< 10 U	< 25 U	< 50 U	< 6.2 U	< 6.2 U	< 6.2 U	< 6.2 U	< 6.2 U
4-Chlorotoluene	NSL	µg/L	< 0.84 U	< 0.84 U	< 1.0 U	NA	NA	< 5.0 U	< 10 U	< 4.2 U	< 4.2 U	< 4.2 U	< 4.2 U	< 4.2 U
Acetone	50	µg/L	< 3.0 U	< 3.0 U	< 10 U	< 5.0 U	< 50 U	< 100 U	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U
Benzene	1	µg/L	< 0.41 U	< 0.41 U	< 1.0 U	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U
Bromobenzene	NSL	µg/L	< 0.80 U	< 0.80 U	< 1.0 U	NA	NA	< 5.0 U	< 10 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U
Bromochloromethane	5	µg/L	< 0.87 U	< 0.87 U	< 1.0 U	NA	< 1 U	< 5.0 U	< 10 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Bromodichloromethane	50	µg/L	< 0.39 U	< 0.39 U	< 1.0 U	< 1.0 U	< 0.5 U	< 5.0 U	< 10 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Bromoform	50	µg/L	< 0.26 U	< 0.26 U	< 1.0 U	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U

Notes:

(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).

µg/L = Microgram(s) per liter

J = Concentration is estimated

J+ = Concentration is estimated, biased high

NA = Not analyzed

ng/L = Nanogram(s) per liter

NSL = No screening level available

U = Analyte not detected

Concentrations exceeding the screening level are shaded gray

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

			Location ID	MW-21	MW-21	MW-21	MW-21	MW-21	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22
			Sample Date	12/6/2016	3/17/2017	6/13/2017	5/16/2019	5/23/2023	10/14/2015	12/8/2015	3/8/2016	3/8/2016	5/31/2016	9/14/2016	12/7/2016
			Sample Name	MW-21 12016	MW-21 031717	MW-21 061317	MW-21 051619-20190516	518014-MW-21	MW-22-20151014	MW-22 120815-20151208	MW-22 030816-20160308	DUP-1 030816-20160308	MW-22 030816-20160308	MW-22 053116	MW-22 091416
			Parent Sample ID												
Analyte	NYSDEC AWQS ¹	Unit													
Bromomethane	5	µg/L	< 0.69 U	< 0.69 U	< 1.0 U	< 1.0 U	< 2 U	< 5.0 U	< 10 U	< 3.5 U	< 3.5 U	< 3.5 U	< 3.5 U	< 3.5 U	< 3.5 U
Carbon Disulfide	60	µg/L	< 0.19 U	< 0.19 U	< 1.0 U	< 1.0 U	< 5 U	< 5.0 U	< 10 U	< 0.95 U	< 0.95 U	< 0.95 U	< 0.95 U	< 0.95 U	< 0.95 U
Carbon Tetrachloride	5	µg/L	< 0.27 U	< 0.27 U	< 1.0 U	< 1.0 U	< 5 U	< 5.0 U	< 10 U	< 1.4 U	< 1.4 U	< 1.4 U	< 1.4 U	< 1.4 U	< 1.4 U
Chlorobenzene	5	µg/L	< 0.75 U	< 0.75 U	< 1.0 U	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 3.8 U	< 3.8 U	< 3.8 U	< 3.8 U	< 3.8 U	< 3.8 U
Chloroethane	5	µg/L	< 0.32 U	< 0.32 U	< 1.0 U	< 1.0 U	< 2 U	< 5.0 U	< 10 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U
Chloroform	7	µg/L	< 0.34 U	< 0.34 U	< 1.0 U	< 1.0 U	< 2 U	< 5.0 U	< 10 U	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U
Chloromethane (Methyl Chloride)	NSL	µg/L	< 0.35 U	< 0.35 U	< 1.0 U	< 1.0 U	< 2 U	< 5.0 U	< 10 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U
Cis-1,2-Dichloroethylene	5	µg/L	< 0.81 U	< 0.81 U	0.93 J	< 1.0 U	1.4	< 5.0 U	< 10 U	< 4.1 U	< 4.1 U	< 4.1 U	< 4.1 U	< 4.1 U	< 4.1 U
Cis-1,3-Dichloropropene	0.4	µg/L	< 0.36 U	< 0.36 U	< 1.0 U	< 1.0 U	< 0.5 U	< 5.0 U	< 10 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U
Cyclohexane	NSL	µg/L	< 0.18 U	< 0.18 U	< 1.0 U	< 1.0 U	< 5 U	< 5.0 U	< 10 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.90 U	< 0.90 U
Cymene	NSL	µg/L	< 0.31 U	< 0.31 U	< 1.0 U	< 1.0 U	NA	6.3	8.2 J	5.8	5.1	3.1 J	1.7 J	< 1.6 U	< 1.6 U
Dibromochloromethane	50	µg/L	< 0.32 U	< 0.32 U	< 1.0 U	< 1.0 U	< 0.5 U	< 5.0 U	< 10 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U
Dibromomethane	5	µg/L	< 0.41 U	< 0.41 U	< 1.0 U	NA	NA	< 5.0 U	< 10 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U
Dichlorodifluoromethane	5	µg/L	< 0.68 U	< 0.68 U	< 1.0 U	< 1.0 U	< 2 U	< 5.0 U	< 10 U	< 3.4 U	< 3.4 U	< 3.4 U	< 3.4 U	< 3.4 U	< 3.4 U
Ethylbenzene	5	µg/L	< 0.74 U	< 0.74 U	< 1.0 U	< 1.0 U	0.74 J	5.5	< 10 U	< 3.7 U	< 3.7 U	< 3.7 U	< 3.7 U	< 3.7 U	< 3.7 U
Hexachlorobutadiene	0.5	µg/L	< 0.28 U	< 0.28 U	< 1.0 U	NA	NA	< 5.0 U	< 10 U	< 1.4 U	< 1.4 U	< 1.4 U	< 1.4 U	< 1.4 U	< 1.4 U
Iodomethane (Methyl Iodide)	NSL	µg/L	< 0.30 U	< 0.30 U	< 1.0 U	NA	NA	< 5.0 U	< 10 U	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U
Isopropylbenzene (Cumene)	5	µg/L	< 0.79 U	< 0.79 U	< 1.0 U	< 1.0 U	0.67 J	< 5.0 U	< 10 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U
Methyl Acetate	NSL	µg/L	< 1.3 U	< 1.3 U	< 2.5 U	< 5.0 U	< 1 U	< 13 U	< 25 U	< 6.5 U	< 6.5 U	< 6.5 U	< 6.5 U	< 6.5 U	< 6.5 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	< 1.3 U	< 1.3 U	< 10 U	< 5.0 U	< 20 U	14 J	< 100 U	< 6.6 U	< 6.6 U	< 6.6 U	< 6.6 U	< 6.6 U	< 6.6 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 2.1 U	< 2.1 U	< 5.0 U	< 5.0 U	< 10 U	< 25 U	< 50 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U
Methyleyclohexane	NSL	µg/L	0.22 J	< 0.16 U	< 1.0 U	< 1.0 U	< 1 U	3.1 J	< 10 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U
Methylene Chloride	5	µg/L	< 0.44 U	< 0.44 U	< 1.0 U	< 1.0 U	< 5 U	< 5.0 U	< 10 U	< 2.2 U	3.7 J	< 2.2 U	3.6 J	< 2.2 U	< 2.2 U
M-P-Xylene	NSL	µg/L	< 0.66 U	< 0.66 U	< 2.0 U	< 1.0 U	NA	22	< 20 U	< 3.3 U	< 3.3 U	< 3.3 U	< 3.3 U	< 3.3 U	< 3.3 U
Naphthalene	10	µg/L	< 0.43 U	< 0.43 U	< 1.0 U	< 1.0 U	NA	< 5.0 U	4.3 J	2.8 J	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U
N-Butylbenzene	5	µg/L	< 0.64 U	< 0.64 U	< 1.0 U	< 1.0 U	NA	8	9.8 J	3.3 J	3.5 J	< 3.2 U	< 3.2 U	< 3.2 U	< 3.2 U
N-Propylbenzene	NSL	µg/L	< 0.69 U	< 0.69 U	< 1.0 U	< 1.0 U	NA	< 5.0 U	< 10 U	< 3.5 U	< 3.5 U	< 3.5 U	< 3.5 U	< 3.5 U	< 3.5 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	< 0.76 U	< 0.76 U	< 1.0 U	< 1.0 U	NA	14	< 10 U	< 3.8 U	< 3.8 U	< 3.8 U	< 3.8 U	< 3.8 U	< 3.8 U
Sec-Butylbenzene	5	µg/L	< 0.75 U	< 0.75 U	< 1.0 U	< 1.0 U	NA	< 5.0 U	< 10 U	< 3.8 U	< 3.8 U	< 3.8 U	< 3.8 U	< 3.8 U	< 3.8 U
Styrene	5	µg/L	< 0.73 U	< 0.73 U	< 1.0 U	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 3.7 U	< 3.7 U	< 3.7 U	< 3.7 U	< 3.7 U	< 3.7 U
T-Butylbenzene	5	µg/L	< 0.81 U	< 0.81 U	< 1.0 U	< 1.0 U	NA	< 5.0 U	< 10 U	< 4.1 U	< 4.1 U	< 4.1 U	< 4.1 U	< 4.1 U	< 4.1 U
Tert-Butyl Methyl Ether	10	µg/L	< 0.16 U	< 0.16 U	< 1.0 U	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U
Tetrachloroethylene (PCE)	5	µg/L	< 0.36 U	< 0.36 U	< 1.0 U	< 1.0 U	< 1 U	3.4 J	< 10 U	< 1.8 U	< 1.8 U	< 1.8 U	2.4 J	< 1.8 U	< 1.8 U
Toluene	5	µg/L	< 0.51 U	< 0.51 U	< 1.0 U	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U
Trans-1,2-Dichloroethene	5	µg/L	< 0.90 U	< 0.90 U	< 1.0 U	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 4.5 U	< 4.5 U	< 4.5 U	< 4.5 U	< 4.5 U	< 4.5 U
Trans-1,3-Dichloropropene	0.4	µg/L	< 0.37 U	< 0.37 U	< 1.0 U	< 1.0 U	< 0.5 U	< 5.0 U	< 10 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U
Trichloroethylene (TCE)	5	µg/L	< 0.46 U	< 0.46 U	< 1.0 U	< 1.0 U	< 1 U	< 5.0 U	< 10 U	< 2.3 U	< 2.3 U	< 2.3 U	< 2.3 U	< 2.3 U	< 2.3 U
Trichlorofluoromethane	5	µg/L	< 0.88 U	< 0.88 U	< 1.0 U	< 1.0 U	< 2 U	< 5.0 U	< 10 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Vinyl Acetate	NSL	µg/L	< 0.85 U	< 0.85 U	< 5.0 U	NA	NA	< 25 U	< 50 U	< 4.3 U	< 4.3 U	< 4.3 U	< 4.3 U	< 4.3 U	< 4.3 U
Vinyl Chloride	2	µg/L	< 0.90 U	< 0.90 U	< 1.0 U	< 1.0 U	< 2 U	< 5.0 U	< 10 U	< 4.5 U	< 4.5 U	< 4.5 U	< 4.5 U	< 4.5 U	< 4.5 U
Xylenes	5	µg/L	< 0.66 U	< 0.66 U	< 2.0 U	< 2.0 U	< 1 U	36	< 20 U	< 3.3 U	< 3.3 U	< 3.3 U	< 3.3 U	< 3.3 U	< 3.3 U
Pesticides (SW8081)															
Alachlor	NSL	µg/L	NA	NA	NA	NA	< 0.18 U	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	NSL	µg/L	< 0.0078 U	< 0.0081 U	< 0.050 U	< 0.020 U	< 0.045 U	< 0.53 U	0.12 J	0.044 J	0.094 J	< 0.016 U	0.069 J	< 0.040 U	< 0.040 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	NSL	µg/L	< 0.0075 U	< 0.0077 U	< 0.050 U	< 0.020 U	< 0.045 U	< 0.53 U	0.084 J	< 0.037 U	< 0.037 U	< 0.015 U	0.019 J	< 0.038 U	< 0.038 U
Alpha Endosulfan	NSL	µg/L	< 0.011 U	< 0.011 U	< 0.050 U	< 0.020 U	< 0.045 U	< 0.53 U	< 0.50 U	< 0.053 U	< 0.053 U	< 0.021 U	< 0.021 U	< 0.054 U	< 0.054 U
Beta Bhc (Beta Hexachlorocyclohexane)	NSL	µg/L	< 0.024 U	< 0.025 U	< 0.050 U	< 0.020 U	< 0.045 U	< 0.53 U	0.26 J	< 0.12 U	< 0.12 U	< 0.048 U	< 0.046 U	< 0.12 U	< 0.12 U
Beta Endosulfan	NSL	µg/L	< 0.012 U	< 0.012 U	< 0.050 U	< 0.020 U	< 0.073 U	< 0.53 U	< 0.50 U	< 0.058 U	< 0.057 U	< 0.023 U	< 0.022 U	< 0.059 U	< 0.059 U
Chlordane	0.05	µg/L	NA	NA	NA	NA	< 0.18 U	NA	NA	NA	NA	NA	NA	NA	NA
Chlordane (Technical)	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-Chlordane	NSL	µg/L	< 0.014 U	< 0.015 U	< 0.050 U	< 0.020 U	NA	< 0.53 U	0.16 J	0.41	0.63	< 0.028 U	0.6	0.15 J	< 0.049 U
Delta BHC (Delta Hexachlorocyclohexane)	NSL	µg/L	< 0.0097 U	< 0.010 U	< 0.050 U	< 0.020 U	< 0.045 U	< 0.53 U	0.27 J	0.055 J	0.10 J	< 0.019 U	< 0.019 U	< 0.049 U	< 0.049 U
Dieldrin	0.004	µg/L	< 0.0095 U	< 0.0098 U	< 0.050 U	< 0.020 U	< 0.0018 U	< 0.53 U	0.28 J	< 0.047 U	< 0.047 U	< 0.019			

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			MW-21 12/6/2016 MW-21 12016	MW-21 3/17/2017 MW-21 031717	MW-21 6/13/2017 MW-21 061317	MW-21 5/16/2019 MW-21 051619-20190516	MW-21 5/23/2023 518014-MW-21	MW-22 10/14/2015 MW-22-20151014	MW-22 12/8/2015 MW-22 120815-20151208	MW-22 3/8/2016 MW-22 030816-20160308	MW-22 3/8/2016 DUP-1 030816-20160308 MW-22 030816-20160308	MW-22 5/31/2016 MW-22 053116	MW-22 9/14/2016 MW-22 091416	MW-22 12/7/2016 MW-22 12016
Analyte	NYSDEC AWQS ¹	Unit												
SVOCs (SW8270)														
1,2,4,5-Tetrachlorobenzene	NSL	µg/L	NA	NA	NA	NA	< 9.5 U	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	< 0.20 U	NA	< 0.40 U	0.055 J	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NSL	µg/L	< 0.46 U	< 0.48 U	< 5.0 U	< 10 U	< 9.5 U	< 5.5 U	< 4.9 U	< 0.46 U	< 0.45 U	< 0.46 U	< 0.46 U	< 0.47 U
2,4,6-Trichlorophenol	NSL	µg/L	< 0.59 U	< 0.61 U	< 5.0 U	< 10 U	< 9.5 U	< 5.5 U	< 4.9 U	< 0.59 U	< 0.57 U	< 0.58 U	< 0.58 U	< 0.60 U
2,4-Dichlorophenol	5	µg/L	< 0.49 U	< 0.51 U	< 5.0 U	< 10 U	< 9.5 U	< 5.5 U	< 4.9 U	< 0.49 U	< 0.47 U	< 0.49 U	< 0.49 U	< 0.50 U
2,4-Dimethylphenol	50	µg/L	< 0.48 U	< 0.50 U	< 5.0 U	< 10 U	< 9.5 U	< 5.5 U	< 4.9 U	< 0.48 U	< 0.47 U	< 0.48 U	< 0.48 U	< 0.49 U
2,4-Dinitrophenol	10	µg/L	< 2.1 U	< 2.2 U	< 10 U	< 20 U	< 9.5 UJ	< 11 U	< 9.8 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.2 U
2,4-Dinitrotoluene	5	µg/L	< 0.43 U	< 0.45 U	< 5.0 U	< 2.0 U	< 9.5 U	< 5.5 U	< 4.9 U	< 0.43 U	< 0.42 U	< 0.43 U	< 0.43 U	< 0.44 U
2,6-Dinitrotoluene	5	µg/L	< 0.38 U	< 0.40 U	< 5.0 U	< 2.0 U	< 9.5 U	< 5.5 U	< 4.9 U	< 0.39 U	< 0.37 U	< 0.38 U	< 0.38 U	< 0.39 U
2-Chloronaphthalene	10	µg/L	< 0.44 U	< 0.46 U	< 5.0 U	< 10 U	< 9.5 U	< 5.5 U	< 4.9 U	< 0.45 U	< 0.43 U	< 0.44 U	< 0.44 U	< 0.45 U
2-Chlorophenol	1	µg/L	< 0.51 U	< 0.53 U	< 5.0 U	< 10 U	< 9.5 U	< 5.5 U	< 4.9 U	< 0.51 U	< 0.49 U	< 0.51 U	< 0.51 U	< 0.52 U
2-Methylnaphthalene	NSL	µg/L	0.83 J	< 0.60 U	< 5.0 U	< 10 U	< 4.8 U	< 5.5 U	2.1 J	< 0.58 U	< 0.56 U	< 0.57 U	< 0.57 U	< 0.59 U
2-Methylphenol (O-Cresol)	NSL	µg/L	< 0.38 U	< 0.40 U	< 5.0 U	< 10 U	< 9.5 U	< 5.5 U	< 4.9 U	< 0.39 U	< 0.37 U	< 0.38 U	< 0.38 U	< 0.39 U
2-Nitroaniline	5	µg/L	< 0.40 U	< 0.42 U	< 10 U	< 10 U	< 9.5 U	< 11 U	< 9.8 U	< 0.41 U	< 0.39 U	< 0.40 U	< 0.40 U	< 0.41 U
2-Nitrophenol	NSL	µg/L	< 0.46 U	< 0.48 U	< 5.0 U	< 10 U	< 9.5 U	< 5.5 U	< 4.9 U	< 0.46 U	< 0.45 U	< 0.46 U	< 0.46 U	< 0.47 U
3- And 4- Methylphenol (Total)	NSL	µg/L	NA	NA	NA	NA	< 9.5 U	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	5	µg/L	< 0.38 U	< 0.40 U	< 5.0 U	< 10 U	< 9.5 U	< 5.5 U	< 4.9 U	< 0.39 U	< 0.37 U	< 0.38 U	< 0.38 U	< 0.39 U
3-Nitroaniline	5	µg/L	< 0.46 U	< 0.48 U	< 10 U	< 10 U	< 9.5 U	< 11 U	< 9.8 U	< 0.46 U	< 0.45 U	< 0.46 U	< 0.46 U	< 0.47 U
4,6-Dinitro-2-Methylphenol	NSL	µg/L	< 2.1 U	< 2.2 U	< 10 U	< 20 U	< 19 UJ	< 11 U	< 9.8 U	< 2.1 U	< 2.0 U	< 2.1 U	< 2.1 U	< 2.2 U
4-Bromophenyl Phenyl Ether	NSL	µg/L	< 0.43 U	< 0.45 U	< 5.0 U	< 10 U	< 9.5 U	< 5.5 U	< 4.9 U	< 0.44 U	< 0.42 U	< 0.43 U	< 0.43 U	< 0.44 U
4-Chloro-3-Methylphenol	NSL	µg/L	< 0.43 U	< 0.45 U	< 5.0 U	< 10 U	< 9.5 U	< 5.5 U	< 4.9 U	< 0.44 U	< 0.42 U	< 0.43 U	< 0.43 U	< 0.44 U
4-Chloroaniline	5	µg/L	< 0.57 U	< 0.59 U	< 5.0 U	< 10 U	< 9.5 U	< 5.5 U	< 4.9 U	< 0.57 U	< 0.55 U	< 0.56 U	< 0.57 U	< 0.58 U
4-Chlorophenyl Phenyl Ether	NSL	µg/L	< 0.34 U	< 0.35 U	< 5.0 U	< 10 U	< 9.5 U	< 5.5 U	< 4.9 U	< 0.34 U	< 0.33 U	< 0.34 U	< 0.34 U	< 0.35 U
4-Methylphenol (P-Cresol)	NSL	µg/L	< 0.35 U	< 0.36 U	< 10 U	< 10 U	NA	0.53 J	0.95 J	< 0.35 U	< 0.33 U	< 0.34 U	< 0.34 U	< 0.36 U
4-Nitroaniline	5	µg/L	< 0.24 U	< 0.25 U	< 10 U	< 10 U	< 9.5 U	< 11 U	< 9.8 U	< 0.24 U	< 0.23 U	< 0.24 U	< 0.24 U	< 0.25 U
4-Nitrophenol	NSL	µg/L	< 1.5 U	< 1.5 U	< 10 U	< 20 U	< 9.5 U	< 11 U	< 9.8 U	< 1.5 U	< 1.4 U	< 1.5 U	< 1.5 U	< 1.5 U
Acenaphthene	20	µg/L	0.87 J	< 0.41 U	< 5.0 U	< 10 U	< 4.8 U	< 5.5 U	< 4.9 U	< 0.40 U	< 0.38 U	< 0.39 U	< 0.39 U	< 0.40 U
Acenaphthylene	NSL	µg/L	< 0.36 U	< 0.38 U	< 5.0 U	< 10 U	< 4.8 U	< 5.5 U	< 4.9 U	< 0.37 U	< 0.35 U	< 0.36 U	< 0.36 U	< 0.37 U
Acetophenone	NSL	µg/L	< 0.52 U	< 0.54 U	< 5.0 U	< 10 U	< 9.5 U	< 5.5 U	< 4.9 U	< 0.52 U	< 0.50 U	< 0.52 U	< 0.52 U	< 0.53 U
Anthracene	50	µg/L	< 0.27 U	< 0.28 U	< 5.0 U	< 10 U	< 4.8 U	< 5.5 U	< 4.9 U	< 0.27 U	< 0.26 U	< 0.27 U	< 0.27 U	< 0.28 U
Atrazine	NSL	µg/L	< 0.44 U	< 0.46 U	< 5.0 U	< 2.0 U	< 19 U	< 5.5 U	< 4.9 U	< 0.45 U	< 0.43 U	< 0.44 U	< 0.44 U	< 0.45 U
Benzaldehyde	NSL	µg/L	< 0.26 U	< 0.27 U	< 5.0 U	< 10 U	< 9.5 UJ	< 5.5 U	< 4.9 U	< 0.26 U	< 0.25 U	< 0.25 U	< 0.26 U	< 0.26 U
Benzo(A)Anthracene	0.002	µg/L	< 0.35 U	< 0.36 U	< 5.0 U	< 1.0 U	< 4.8 U	< 5.5 U	< 4.9 U	< 0.35 U	< 0.33 U	< 0.34 U	< 0.34 U	< 0.36 U
Benzo(A)Pyrene	NSL	µg/L	< 0.45 U	< 0.47 U	< 5.0 U	< 1.0 U	< 4.8 U	< 5.5 U	< 4.9 U	< 0.45 U	< 0.44 U	< 0.45 U	< 0.45 U	< 0.46 U
Benzo(B)Fluoranthene	0.002	µg/L	< 0.33 U	< 0.34 U	< 5.0 U	< 2.0 U	< 4.8 U	< 5.5 U	< 4.9 U	< 0.33 U	< 0.32 U	< 0.32 U	< 0.33 U	< 0.34 U
Benzo(G,H,I)Perylene	NSL	µg/L	< 0.34 U	< 0.35 U	< 5.0 U	< 10 U	< 4.8 U	< 5.5 U	< 4.9 U	< 0.34 U	< 0.33 U	< 0.33 U	< 0.34 U	< 0.35 U
Benzo(K)Fluoranthene	0.002	µg/L	< 0.70 U	< 0.73 U	< 5.0 U	< 1.0 U	< 4.8 U	< 5.5 U	< 4.9 U	< 0.71 U	< 0.68 U	< 0.70 U	< 0.70 U	< 0.72 U
Benzytl Butyl Phthalate	50	µg/L	< 0.96 U	< 1.0 U	< 5.0 U	< 10 U	< 9.5 UJ	< 5.5 U	< 4.9 U	< 0.95 U	0.55 J	< 0.95 U	< 0.96 U	< 0.99 U
Biphenyl (Diphenyl or 1,1'-Biphenyl)	5	µg/L	< 0.63 U	< 0.65 U	< 5.0 U	< 10 U	< 19 U	< 5.5 U	< 4.9 U	< 0.63 U	< 0.61 U	< 0.62 U	< 0.63 U	< 0.64 U
Bis(2-Chloroethoxy) Methane	5	µg/L	< 0.34 U	< 0.35 U	< 5.0 U	< 10 U	< 9.5 U	< 5.5 U	< 4.9 U	< 0.34 U	< 0.33 U	< 0.33 U	< 0.34 U	< 0.35 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	µg/L	< 0.38 U	< 0.40 U	< 5.0 U	< 1.0 U	< 9.5 U	< 5.5 U	< 4.9 U	< 0.39 U	< 0.37 U	< 0.38 U	< 0.38 U	< 0.39 U
Bis(2-Chloroisopropyl) Ether	5	µg/L	< 0.50 U	< 0.52 U	< 5.0 U	< 10 U	< 9.5 U	< 5.5 U	< 4.9 U	< 0.50 U	< 0.48 U	< 0.50 U	< 0.50 U	< 0.51 U
Bis(2-Ethylhexyl) Phthalate	5	µg/L	< 2.1 U	< 2.2 U	< 5.0 U	< 2.0 U	< 9.5 UJ	< 5.5 U	< 4.9 U	< 1.7 U	< 1.7 U	< 2.1 U	< 2.1 U	< 2.2 U
Caprolactam	NSL	µg/L	< 2.1 U	< 2.2 U	< 5.0 U	< 10 U	< 9.5 UJ	< 5.5 U	< 4.9 U	< 2.1 U	< 2.0 U	< 2.1 U	< 2.1 U	< 2.2 U
Carbazole	NSL	µg/L	< 0.29 U	< 0.30 U	< 5.0 U	< 10 U	< 9.5 U	< 5.5 U	< 4.9 U	< 0.29 U	< 0.28 U	< 0.29 U	< 0.29 U	< 0.30 U
Chrysene	0.002	µg/L	< 0.32 U	< 0.33 U	< 5.0 U	< 2.0 U	< 4.8 U	< 5.5 U	< 4.9 U	< 0.32 U	< 0.31 U	< 0.31 U	< 0.32 U	< 0.33 U
Dibenz(A,H)Anthracene	NSL	µg/L	< 0.40 U	< 0.42 U	< 5.0 U	< 1.0 U	< 4.8 U	< 5.5 U	< 4.9 U	< 0.41 U	< 0.39 U	< 0.40 U	< 0.40 U	< 0.41 U
Dibenzofuran	NSL	µg/L	0.58 J	< 0.51 U	< 10 U	< 10 U	< 4.8 U	< 11 U	< 9.8 U	< 0.49 U	< 0.47 U	< 0.49 U	< 0.49 U	< 0.50 U
Diethyl Phthalate	50	µg/L	< 0.21 U	< 0.22 U	< 5.0 U	< 10 U	< 9.5 U	< 5.5 U	< 4.9 U	0.78 J	0.87 J	< 0.21 U	< 0.21 U	< 0.22 U
Dimethyl Phthalate	50	µg/L	< 0.35 U	< 0.36 U	< 5.0 U	< 10 U	< 9.5 U	< 5.5 U	< 4.9 U	< 0.35 U	< 0.33 U	< 0.34 U	< 0.34 U	< 0.36 U
Di-N-Butyl Phthalate	50	µg/L	< 0.30 U	< 0.31 U	0.61 J	< 10 U	< 9.5 U	1.3 J	2.0 J	1.3 J	1.2 J	0.48 J	< 0.30 U	0.93 J
Di-N-Octylphthalate	50	µg/L	< 0.45 U	< 0.47 U	< 5.0 U	< 10 U	< 9.5 UJ	< 5.5 U	< 4.9 U	< 0.45 U	< 0.44 U	< 0.45 U	< 0.45 U	< 0.46 U
Fluoranthene	50	µg/L	0.46 J	< 0.40 U	< 5.0 U	< 10 U	< 4.8 U	< 5.5 U	< 4.9 U	< 0.39 U	< 0.37 U	< 0.38 U	< 0.38 U	< 0.39 U
Fluorene	50	µg/L	0.50 J	< 0.36 U	< 5.0 U	<								

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			MW-22 3/15/2017 MW-22 031517	MW-22 6/13/2017 MW-22 061317	MW-22 6/13/2017 DUP-1 061317 MW-22 061317	MW-22 5/15/2019 MW-22 051519-20190515	MW-22 5/23/2023 518014-MW-22	MW-23 10/14/2015 MW-23-20151014	MW-23 12/8/2015 MW-23 120815-20151208	MW-23 3/8/2016 MW-23 030816-20160308	MW-23 5/31/2016 MW-23 053116	MW-23 9/14/2016 MW-23 091416	MW-23 12/6/2016 MW-23 120616	MW-23 3/16/2017 MW-23 031617
Analyte	NYSDEC AWQS ¹	Unit												
PFAS (E537/E1633)														
11-Chloroicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NSL	ng/L	NA	NA	NA	NA	< 3.5 U	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	< 83 U	NA	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	< 3.5 U	NA	NA	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	< 83 U	NA	NA	NA	NA	NA	NA	NA
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	< 44 U	NA	NA	NA	NA	NA	NA
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	< 44 U	NA	NA	NA	NA	NA	NA
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	< 8.7 U	NA	NA	NA	NA	NA	NA
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	NA	NA	NA	NA	< 3.5 U	NA	NA	NA	NA	NA	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	NA	NA	NA	NA	NA	< 3.5 U	NA	NA	NA	NA	NA	NA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	NA	NA	NA	NA	< 3.5 U	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.87 U	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	NA	NA	NA	NA	< 83 UJ	0.24 J	NA	NA	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	< 8.7 U	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamide (NMtFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.87 U	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoacetic acid (NMtFOSAA)	NSL	ng/L	NA	NA	NA	NA	< 83 UJ	< 0.87 U	NA	NA	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoethanol (NMtFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	< 8.7 U	NA	NA	NA	NA	NA	NA
Nonafluoro-3,6-dioxiheptanoic acid (NFDHA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.7 U	NA	NA	NA	NA	NA	NA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.7 U	NA	NA	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.7 U	NA	NA	NA	NA	NA	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.7 U	NA	NA	NA	NA	NA	NA
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	1.4 J	< 2.0 U	< 2.0 U	NA	< 8.3 UJ	6.2	NA	NA	NA	NA	NA	< 0.92 U
Perfluorobutanoic Acid	NSL	ng/L	NA	NA	NA	NA	45	33 R	NA	NA	NA	NA	NA	NA
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	NA	NA	NA	NA	< 8.3 U	< 0.87 U	NA	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	NSL	ng/L	NA	NA	NA	NA	3.5 J	14	NA	NA	NA	NA	NA	NA
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.87 U	NA	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	NA	NA	NA	NA	< 8.3 U	< 0.87 U	NA	NA	NA	NA	NA	NA
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	NA	NA	NA	NA	9.4	6.3	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	1.6 J	8.5	10	NA	14	8.6	NA	NA	NA	NA	NA	3.7
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	4.1	24	31	NA	33 J	19	NA	NA	NA	NA	NA	2.6
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	NA	NA	NA	NA	21	7.3	NA	NA	NA	NA	NA	NA
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.87 U	NA	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	NSL	ng/L	7	18	23	NA	55	30	NA	NA	NA	NA	NA	1.7 J
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	NA	NA	NA	NA	< 8.3 U	1.2	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	200	200	250	NA	350 J	280	NA	NA	NA	NA	NA	89
Perfluorooctanoic acid (PFOA)	6.7	ng/L	13	50	59	NA	95 J	76	NA	NA	NA	NA	NA	16
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	NA	NA	NA	NA	4.2	NA	NA	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	NA	NA	NA	NA	34	< 1.7 U	NA	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	NA	NA	NA	NA	< 8.3 UJ	< 0.87 U	NA	NA	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTrIA/PFTrDA)	NSL	ng/L	NA	NA	NA	NA	< 8.3 U	< 0.87 U	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	NA	NA	NA	NA	< 8.3 U	< 0.87 U	NA	NA	NA	NA	NA	NA
VOCs (SW8260)														
1,1,1,2-Tetrachloroethane	5	µg/L	< 0.35 U	< 1.0 U	< 1.0 U	NA	NA	< 5.0 U	< 5.0 U	< 3.5 U	< 3.5 U	< 3.5 U	< 0.35 U	< 0.35 U
1,1,1-Trichloroethane (TCA)	5	µg/L	< 0.82 U	< 1.0 U	< 1.0 U	NA	< 1 U	< 5.0 U	< 5.0 U	< 8.2 U	< 8.2 U	< 8.2 U	< 0.82 U	< 0.82 U
1,1,2,2-Tetrachloroethane	5	µg/L	< 0.21 U	< 1.0 U	< 1.0 U	NA	< 1.0 U	< 0.5 U	< 5.0 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.21 U	< 0.21 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 0.31 U	< 1.0 U	< 1.0 U	NA	< 1.0 U	< 1 U	< 5.0 U	< 3.1 U	< 3.1 U	< 3.1 U	< 0.31 U	< 0.31 U
1,1,2-Trichloroethane	1	µg/L	< 0.23 U	< 1.0 U	< 1.0 U	NA	< 1.0 U	< 1 U	< 5.0 U	< 2.3 U	< 2.3 U	< 2.3 U	< 0.23 U	< 0.23 U
1,1-Dichloroethane	5	µg/L	< 0.38 U	< 1.0 U	< 1.0 U	NA	< 1 U	< 5.0 U	< 5.0 U	< 3.8 U	< 3.8 U	< 3.8 U	< 0.38 U	< 0.38 U
1,1-Dichloroethene	5	µg/L	< 0.29 U	< 1.0 U	< 1.0 U	NA	< 1 U	< 5.0 U	< 5.0 U	< 2.9 U	< 2.9 U	< 2.9 U	< 0.29 U	< 0.29 U
1,1-Dichloropropene	5	µg/L	< 0.72 U	< 1.0 U	< 1.0 U	NA	NA	< 5.0 U	< 5.0 U	< 7.2 U	< 7.2 U	< 7.2 U	< 0.72 U	< 0.72 U
1,2,3-Trichlorobenzene	5	µg/L	< 0.41 U	< 1.0 U	< 1.0 U	NA	< 5 U	< 5.0 U	< 5.0 U	< 4.1 U	< 4.1 U	< 4.1 U	< 0.41 U	< 0.41 U
1,2,3-Trichloropropane	0.04	µg/L	< 0.89 U	< 1.0 U	< 1.0 U	NA	NA	< 5.0 U	< 5.0 U	< 8.9 U	< 8.9 U	< 8.9 U	< 0.89 U	< 0.89 U
1,2,4-Trichlorobenzene	5	µg/L	< 0.41 U	< 1.0 U	< 1.0 U	NA	< 1 U	< 5.0 U	< 5.0 U	< 4.1 U	< 4.1 U	< 4.1 U	< 0.41 U	< 0.41 U
1,2,4-Trimethylbenzene	NSL	µg/L	< 0.75 U	< 1.0 U	< 1.0 U	NA	NA	110	160	770	570	570	45	350
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 0.39 U	< 1.0 U	< 1.0 U	NA	< 5 U	< 5.0 U	< 5.0 U	< 3.9 U	< 3.9 U	< 3.9 U	< 0.39 U	< 0.39 U
1,2-Dibromomethane (Ethylene Dibromide)	NSL	µg/L	< 0.73 U	< 1.0 U	< 1.0 U	NA	< 0.5 U	< 5.0 U	< 5.0 U	< 7.3 U	< 7.3 U	< 7.3 U	< 0.73 U	< 0.73 U
1,2-Dichlorobenzene	3	µg/L	< 0.79 U	< 1.0 U	< 1.0 U	NA	< 1 U	18	8.6	47	34	30	2.3	25
1,2-Dichloroethane	0.6	µg/L	< 0.21 U	< 1.0 U	< 1.0 U	NA	< 1 U	< 5.0 U	< 5.0 U	< 2.1 U	< 2.1 U	< 2.1 U	< 0.21 U	< 0.21 U
1,2-Dichloropropane	1	µg/L	< 0.72 U	< 1.0 U	< 1.0 U	NA	< 1 U	< 5.0 U	< 5.0 U	< 7.2 U	< 7.2 U	< 7.2 U	< 0.72 U	< 0.72 U
1,3,5-Trimethylbenzene (Mesitylene)	NSL	µg/L	< 0.77 U	< 1.0 U	< 1.0 U	NA	NA	66	49	260	200	200	15	110
1,3-Dichlorobenzene	3	µg/L	< 0.78 U	< 1.0 U	< 1.0 U	NA	< 1 U	< 5.0 U	< 5.0 U	< 7.8 U	< 7.8 U	< 7.8 U	< 0.78 U	< 0.78 U
1,3-Dichloropropane	5	µg/L	< 0.75 U	< 1.0 U	< 1.0 U	NA	NA	< 5.0 U	< 5.0 U	< 7.5 U	< 7.5 U	< 7.5 U	< 0.75 U	< 0.75 U
1,4-Dichlorobenzene	3	µg/L	< 0.84 U	< 1.0 U	< 1.0 U	NA	< 1 U	< 5.0 U	< 5.0 U	< 8.4 U	< 8.4 U	< 8.4 U	< 0.84 U	2.5
1,4-Dioxane (P-Dioxane)	0.35	µg/L	< 0.20 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.20 U
2,2-Dichloropropane	NSL	µg/L	< 0.40 U	< 1.0 U	< 1.0 U	NA	NA	< 5.0 U	< 5.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 0.40 U	< 0.40 U
2-Chlorotoluene	NSL	µg/L	< 0.86 U	< 1.0 U	< 1.0 U	NA	NA	< 5.0 U	< 5.0 U	< 8.6 U	< 8.6 U	< 8.6 U	< 0.86 U	< 0.86 U
2-Hexanone	50	µg/L	< 1.2 U	< 5.0 U	< 5.0 U	NA	< 10 U	< 25 U	< 25 U	< 12 U	< 12 U	< 12 U	< 1.2 U	< 1.2 U
4-Chlorotoluene	NSL	µg/L	< 0.84 U	< 1.0 U	< 1.0 U	NA	NA	< 5.0 U	< 5.0 U	< 8.4 U	< 8.4 U	< 8.4 U	< 0.84 U	< 0.84 U
Acetone	50	µg/L	< 3.0 U	5.8 J	6.2 J	NA	< 5.0 U	2.5 J	< 50 U	140	390	150	48 J	19
Benzene	1	µg/L	< 0.41 U	< 1.0 U	< 1.0 U	NA	< 1 U	< 5.0 U	< 5.0 U	< 4.1 U	< 4.1 U	< 4.1 U	< 0.41 U	< 0.41 U
Bromobenzene	NSL	µg/L	< 0.80 U	< 1.0 U	< 1.0 U	NA	NA	< 5.0 U	< 5.0 U	< 8.0 U	< 8.0 U	< 8.0 U	< 0.80 U	< 0.80 U
Bromochloromethane	5	µg/L	< 0.87 U	< 1.0 U	< 1.0 U	NA	< 1 U	< 5.0 U	< 5.0 U	< 8.7 U	< 8.7 U	< 8.7 U	< 0.87 U	< 0.87 U
Bromodichloromethane	50	µg/L	< 0.39 U	< 1.0 U	< 1.0 U	NA	< 0.5 U	< 5.0 U	< 5.0 U	< 3.9 U	< 3.9 U	< 3.9 U	< 0.39 U	< 0.39 U
Bromofom	50	µg/L	< 0.26 U	< 1.0 U	< 1.0 U	NA	< 1 UJ	< 5.0 U	< 5.0 U	< 2.6 U	< 2.6 U	< 2.6 U	< 0.26 U	< 0.26 U

Notes:
(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).
µg/L = Microgram(s) per liter
J = Concentration is estimated
J+ = Concentration is estimated, biased high
NA = Not analyzed
ng/L = Nanogram(s) per liter
NSL - No screening level available
U = Analyte not detected
Concentrations exceeding the screening level are shaded gray

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

			Location ID	MW-22	MW-22	MW-22	MW-22	MW-22	MW-23	MW-23	MW-23	MW-23	MW-23	MW-23	MW-23
			6/13/2017	3/15/2017	6/13/2017	6/13/2017	5/15/2019	5/23/2023	10/14/2015	12/8/2015	3/8/2016	5/31/2016	9/14/2016	12/6/2016	3/16/2017
			Sample Name	MW-22 031517	MW-22 061317	DUP-1 061317	MW-22 051519-20190515	518014-MW-22	MW-23-20151014	MW-23 120815-20151208	MW-23 030816-20160308	MW-23 053116	MW-23 091416	MW-23 120116	MW-23 031617
			Parent Sample ID			MW-22 061317									

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			MW-22 3/15/2017 MW-22 031517	MW-22 6/13/2017 MW-22 061317	MW-22 6/13/2017 DUP-1 061317 MW-22 061317	MW-22 5/15/2019 MW-22 051519-20190515	MW-22 5/23/2023 518014-MW-22	MW-23 10/14/2015 MW-23-20151014	MW-23 12/8/2015 MW-23 120815-20151208	MW-23 3/8/2016 MW-23 030816-20160308	MW-23 5/31/2016 MW-23 053116	MW-23 9/14/2016 MW-23 091416	MW-23 12/6/2016 MW-23 120616	MW-23 3/16/2017 MW-23 031617
Analyte	NYSDEC AWQS ¹	Unit												
SVOCs (SW8270)														
1,2,4,5-Tetrachlorobenzene	NSL	µg/L	NA	NA	NA	NA	<9.5 U	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane (P-Dioxane)	0.35	µg/L	<0.20 U	NA	NA	NA	<0.19 U	NA	NA	NA	NA	NA	NA	<0.20 U
2,4,5-Trichlorophenol	NSL	µg/L	<0.48 U	<5.0 U	<5.0 U	<10 U	<9.5 U	<20 U	<4.6 U	<1.9 U	<0.45 U	<2.3 U	<0.45 U	<4.8 U
2,4,6-Trichlorophenol	NSL	µg/L	<0.61 U	<5.0 U	<5.0 U	<10 U	<9.5 U	<20 U	<4.6 U	<2.4 U	<0.57 U	<2.9 U	<0.57 U	<6.1 U
2,4-Dichlorophenol	5	µg/L	<0.51 U	<5.0 U	<5.0 U	<10 U	<9.5 U	<20 U	<4.6 U	<2.0 U	<0.48 U	<2.4 U	<0.48 U	<5.1 U
2,4-Dimethylphenol	50	µg/L	<0.50 U	<5.0 U	<5.0 U	<10 U	<9.5 U	4.9 J	4.6	10 J	3.8 J	7.6 J	<0.47 U	6.4 J
2,4-Dinitrophenol	10	µg/L	<2.2 U	<10 U	<10 U	<20 U	<19 UJ	<40 U	<9.2 U	<8.6 U	<2.1 U	<10 U	<2.1 U	<22 U
2,4-Dinitrotoluene	5	µg/L	<0.45 U	<5.0 U	<5.0 U	<2.0 U	<9.5 U	<20 U	<4.6 U	<1.7 U	<0.42 U	<2.1 U	<0.42 U	<4.5 U
2,6-Dinitrotoluene	5	µg/L	<0.40 U	<5.0 U	<5.0 U	<2.0 U	<9.5 U	<20 U	<4.6 U	<1.6 U	<0.37 U	<1.9 U	<0.38 U	<4.0 U
2-Chloronaphthalene	10	µg/L	<0.46 U	<5.0 U	<5.0 U	<10 U	<9.5 U	<20 U	<4.6 U	<1.8 U	<0.43 U	<2.2 U	<0.43 U	<4.6 U
2-Chlorophenol	1	µg/L	<0.53 U	<5.0 U	<5.0 U	<10 U	<9.5 U	<20 U	<4.6 U	<2.1 U	<0.50 U	<2.5 U	<0.50 U	<5.3 U
2-Methylnaphthalene	NSL	µg/L	<0.60 U	<5.0 U	<5.0 U	<10 U	<4.8 U	<20 U	2.9 J	32	20	23	<0.56 U	13 J
2-Methylphenol (O-Cresol)	NSL	µg/L	<0.40 U	<5.0 U	<5.0 U	<10 U	<9.5 U	<20 U	<4.6 U	<1.6 U	<0.37 U	<1.9 U	<0.38 U	<4.0 U
2-Nitroaniline	5	µg/L	<0.42 U	<10 U	<10 U	<10 U	<9.5 U	<40 U	<9.2 U	<1.6 U	<0.39 U	<2.0 U	<0.39 U	<4.2 U
2-Nitrophenol	NSL	µg/L	<0.48 U	<5.0 U	<5.0 U	<10 U	<9.5 U	<20 U	<4.6 U	<1.9 U	<0.45 U	<2.3 U	<0.45 U	<4.8 U
3- And 4- Methylphenol (Total)	NSL	µg/L	NA	NA	NA	NA	<9.5 U	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	5	µg/L	<0.40 U	<5.0 U	<5.0 U	<10 U	<9.5 U	<20 U	<4.6 U	<1.6 U	<0.37 U	<1.9 U	<0.38 U	<4.0 U
3-Nitroaniline	5	µg/L	<0.48 U	<10 U	<10 U	<10 U	<9.5 UJ	<40 U	<9.2 U	<1.9 U	<0.45 U	<2.3 U	<0.45 U	<4.8 U
4,6-Dinitro-2-Methylphenol	NSL	µg/L	<2.2 U	<10 U	<10 U	<20 U	<19 UJ	<40 U	<9.2 U	<8.6 U	<2.1 U	<10 U	<2.1 U	<22 U
4-Bromophenyl Phenyl Ether	NSL	µg/L	<0.45 U	<5.0 U	<5.0 U	<10 U	<9.5 U	<20 U	<4.6 U	<1.8 U	<0.42 U	<2.1 U	<0.42 U	<4.5 U
4-Chloro-3-Methylphenol	NSL	µg/L	<0.45 U	<5.0 U	<5.0 U	<10 U	<9.5 U	<20 U	<4.6 U	<1.8 U	<0.42 U	<2.1 U	<0.42 U	<4.5 U
4-Chloroaniline	5	µg/L	<0.59 U	<5.0 U	<5.0 U	<10 U	<9.5 U	<20 U	<4.6 U	<2.3 U	<0.55 U	<2.8 U	<0.55 U	<5.9 U
4-Chlorophenyl Phenyl Ether	NSL	µg/L	<0.35 U	<5.0 U	<5.0 U	<10 U	<9.5 U	<20 U	<4.6 U	<1.4 U	<0.33 U	<1.6 U	<0.33 U	<3.5 U
4-Methylphenol (P-Cresol)	NSL	µg/L	<0.36 U	<10 U	<10 U	<10 U	NA	<40 U	5.7 J	9.4 J	4.2 J	7.2 J	<0.34 U	<3.6 U
4-Nitroaniline	5	µg/L	<0.25 U	<10 U	<10 U	<10 U	<9.5 UJ	<40 U	<9.2 U	<0.97 U	<0.23 U	<1.2 U	<0.23 U	<2.5 U
4-Nitrophenol	NSL	µg/L	<1.5 U	<10 U	<10 U	<20 U	<19 U	<40 U	<9.2 U	<5.9 U	<1.4 U	<7.1 U	<1.4 U	<15 U
Acenaphthene	20	µg/L	<0.41 U	<5.0 U	<5.0 U	<10 U	<4.8 U	<20 U	<4.6 U	<1.6 U	<0.38 U	<1.9 U	<0.39 U	<4.1 U
Acenaphthylene	NSL	µg/L	<0.38 U	<5.0 U	<5.0 U	<10 U	<4.8 U	<20 U	<4.6 U	<1.5 U	<0.36 U	<1.8 U	<0.36 U	<3.8 U
Acetophenone	NSL	µg/L	<0.54 U	<5.0 U	<5.0 U	<10 U	<9.5 U	<20 U	44	210	<0.50 U	<2.5 U	3.4 J	<5.4 U
Anthracene	50	µg/L	<0.28 U	<5.0 U	<5.0 U	<10 U	<4.8 U	<20 U	<4.6 U	<1.1 U	<0.26 U	<1.3 U	<0.26 U	<2.8 U
Atrazine	NSL	µg/L	<0.46 U	<5.0 U	<5.0 U	<2.0 U	<19 U	<20 U	<4.6 U	<1.8 U	<0.43 U	<2.2 U	<0.43 U	<4.6 U
Benzaldehyde	NSL	µg/L	<0.27 U	<5.0 U	<5.0 U	<10 U	<9.5 UJ	<20 U	17	<1.0 U	<0.25 U	<1.3 U	<0.25 U	<2.7 U
Benzo(A)Anthracene	0.002	µg/L	<0.36 U	<5.0 U	<5.0 U	<1.0 U	<4.8 U	<20 U	<4.6 U	<1.4 U	<0.34 U	<1.7 U	<0.34 U	<3.6 U
Benzo(A)Pyrene	NSL	µg/L	<0.47 U	<5.0 U	<5.0 U	<1.0 U	<4.8 U	<20 U	<4.6 U	<1.8 U	<0.44 U	<2.2 U	<0.44 U	<4.7 U
Benzo(B)Fluoranthene	0.002	µg/L	<0.34 U	<5.0 U	<5.0 U	<2.0 U	<4.8 U	<20 U	<4.6 U	<1.3 U	<0.32 U	<1.6 U	<0.32 U	<3.4 U
Benzo(G,H,I)Perylene	NSL	µg/L	<0.35 U	<5.0 U	<5.0 U	<10 U	<4.8 U	<20 U	<4.6 U	<1.4 U	<0.33 U	<1.6 U	<0.33 U	<3.5 U
Benzo(K)Fluoranthene	0.002	µg/L	<0.73 U	<5.0 U	<5.0 U	<1.0 U	<4.8 U	<20 U	<4.6 U	<2.8 U	<0.68 U	<3.4 U	<0.69 U	<7.3 U
Benzyl Butyl Phthalate	50	µg/L	<1.0 U	<5.0 U	<5.0 U	<10 U	<9.5 UJ	<20 U	<4.6 U	<1.6 U	<0.93 U	<4.7 U	<0.94 U	<10 U
Biphenyl (Diphenyl or 1,1'-Biphenyl)	5	µg/L	<0.65 U	<5.0 U	<5.0 U	<10 U	<19 U	<20 U	<4.6 U	<2.5 U	0.95 J	<3.1 U	<0.61 U	<6.5 U
Bis(2-Chloroethoxy) Methane	5	µg/L	<0.35 U	<5.0 U	<5.0 U	<10 U	<9.5 U	<20 U	<4.6 U	<1.4 U	<0.33 U	<1.6 U	<0.33 U	<3.5 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	µg/L	<0.40 U	<5.0 U	<5.0 U	<1.0 U	<9.5 U	<20 U	<4.6 U	<1.6 U	<0.37 U	<1.9 U	<0.38 U	<4.0 U
Bis(2-Chloroisopropyl) Ether	5	µg/L	<0.52 U	<5.0 U	<5.0 U	<10 U	<9.5 U	<20 U	<4.6 U	<2.0 U	<0.49 U	<2.4 U	<0.49 U	<5.2 U
Bis(2-Ethylhexyl) Phthalate	5	µg/L	<2.2 U	<5.0 U	<5.0 U	<2.0 U	<9.5 UJ	<20 U	<4.6 U	<7.0 U	<2.1 U	<10 U	<2.1 U	<22 U
Caprolactam	NSL	µg/L	<2.2 U	<5.0 U	<5.0 U	<10 U	<9.5 UJ	<20 U	<4.6 U	<8.6 U	<2.1 U	<10 U	<2.1 U	<22 U
Carbazole	NSL	µg/L	<0.30 U	<5.0 U	<5.0 U	<10 U	<9.5 U	<20 U	<4.6 U	<1.2 U	<0.28 U	<1.4 U	<0.28 U	<3.0 U
Chrysene	0.002	µg/L	<0.33 U	<5.0 U	<5.0 U	<2.0 U	<4.8 U	<20 U	<4.6 U	<1.3 U	<0.31 U	<1.6 U	<0.31 U	<3.3 U
Dibenz(A,H)Anthracene	NSL	µg/L	<0.42 U	<5.0 U	<5.0 U	<1.0 U	<4.8 U	<20 U	<4.6 U	<1.6 U	<0.39 U	<2.0 U	<0.39 U	<4.2 U
Dibenzofuran	NSL	µg/L	<0.51 U	<10 U	<10 U	<10 U	<4.8 U	<40 U	<9.2 U	<2.0 U	<0.48 U	<2.4 U	<0.48 U	<5.1 U
Diethyl Phthalate	50	µg/L	<0.22 U	<5.0 U	<5.0 U	<10 U	<9.5 U	<20 U	<4.6 U	1.2 J	<0.21 U	<1.0 U	<0.21 U	<2.2 U
Dimethyl Phthalate	50	µg/L	<0.36 U	<5.0 U	<5.0 U	<10 U	<9.5 U	<20 U	<4.6 U	<1.4 U	<0.34 U	<1.7 U	<0.34 U	<3.6 U
Di-N-Butyl Phthalate	50	µg/L	<0.31 U	0.73 J	<5.0 U	<10 U	<9.5 U	2.5 J	0.91 J	2.0 J	1.3 J	1.5 J	<0.29 U	<3.1 U
Di-N-Octylphthalate	50	µg/L	<0.47 U	<5.0 U	<5.0 U	<10 U	<9.5 UJ	<20 U	<4.6 U	<1.8 U	<0.44 U	<2.2 U	<0.44 U	<4.7 U
Fluoranthene	50	µg/L	<0.40 U	<5.0 U	<5.0 U	<10 U	<4.8 U	<20 U	<4.6 U	<1.6 U	<0.37 U	<1.9 U	<0.38 U	<4.0 U
Fluorene	50	µg/L	<0.36 U	<5.0 U	<5.0 U	<10 U	<4.8 U	<20 U	<4.6 U	<1.4 U	<0.34 U	<1.7 U	<0.34 U	<3.6 U
Hexachlorobenzene	0.04	µg/L	<0.51 U	<5.0 U	<5.0 U	<1.0 U	<9.5 U	<20 U	<4.6 U	<2.0 U	<0.48 U	<2.4 U	<0.48 U	<5.1 U
Hexachlorobutadiene	0.5	µg/L	<0.68 U	<5.0 U	<5.0 U	<1.0 U	<9.5 U	<20 U	<4.6 U	<2.6 U	<0.64 U	<3.2 U	<0.64 U	<6.8 U
Hexachlorocyclopentadiene	5	µg/L	<0.59 U	<5.0 U	<5.0 U	<10 U	<9.5 U	<20 U	<4.6 U	<2.3 U	<0.55 U	<2.8 U	<0.55 U	<5.9 U
Hexachloroethane	5	µg/L	<0.59 U	<5.0 U	<5.0 U	<2.0 U	<9.5 UJ	<20 U	<4.6 U	<2.3 U	<0.55 U	<2.8 U	<0.55 U	<5.9 U
Indeno(1,2,3-C,D)Pyrene	0.002	µg/L	<0.47 U	<5.0 U	<5.0 U	<2.0 U	<4.8 U	<20 U	<4.6 U	<1.8 U	<0.44 U	<2.2 U	<0.44 U	<4.7 U
Isophorone	50	µg/L	<0.43 U	<5.0 U	<5.0 U	<10 U	<9.5 U	<20 U	<4.6 U	<1.7 U	<0.40 U	<2.0 U	<0.40 U	<4.3 U
Naphthalene	10	µg/L	<0.76 U	<5.0 U	<5.0 U	<10 U	<4.8 U	<20 U	15	96	59	68	<0.71 U	57
Nitrobenzene	0.4	µg/L	<0.29 U	<5.0 U	<5.0 U	<1.0 U	<9.5 U	<20 U	<4.6 U	<1.1 U	<0.27 U	<1.4 U	<0.27 U	<2.9 U
N-Nitrosodi-N-Propylamine	NSL	µg/L	<0.54 U	<5.0 U	<5.0 U	<1.0 U	<9.5 U	<20 U	<4.6 U	<2.1 U	<0.50 U	<2.5 U	<0.51 U	<5.4 U
N-Nitrosodiphenylamine	50	µg/L	<0.51 U	<5.0 U	<5.0 U	<10 U	<9.5 U	<20 U	<4.6 U	<2.0 U	<0.48 U	<2.4 U	<0.48 U	<5.1 U
Pentachlorophenol	1	µg/L	<0.0022 U	<10 U	<10 U	<20 U	<9.5 U	<40 U	<9.2 U	<8.6 U	<2.1 U	<10 U	<2.1 U	<0.0022 U
Phenanthrene	50	µg/L	<0.00044 U	<5.0 U	<5.0 U	<10 U	<4.8 U	<20 U	<4.6 U	<1.7 U	<0.41 U	<2.1 U	<0.41 U	<0.0044 U
Phenol	NSL	µg/L	<0.39 U	<5.0 U	<5.0 U	<10 U	<9.5 U	<20 U	1.1 J	<1.5 U	<0.36 U	<1.8 U	<0.37 U	<3.9 U
Pyrene	50	µg/L	<0.34 U	<5.0 U	<5.0 U	<10 U	<4.8 U	<20 U	<4.6 U	<1.3 U	<0.32 U	<1.6 U	<0.32 U	<3.4 U

Notes:

(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).

µg/L = Microgram(s) per liter

J = Concentration is estimated

J+ = Concentration is estimated, biased high

NA = Not analyzed

ng/L = Nanogram(s) per liter

NSL = No screening level available

U = Analyte not detected

Concentrations exceeding the screening level are shaded gray

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			MW-23 6/14/2017 MW-23 061417	MW-23 5/14/2019 MW-23 051419-20190514	MW-23 5/23/2023 518014-MW-23	MW-24 10/15/2015 MW-24-20151015	MW-24 3/17/2017 MW-24 031717	MW-24 5/15/2019 MW-24 051519-20190515	MW-24 5/23/2023 518014-MW-24	MW-24 5/23/2023 518014-DUP-1-GW 518014-MW-24_20230523	MW-8D 1/10/2012 MW-8D	MW-8D 10/15/2015 MW-8D-20151015	MW-8D 3/17/2017 MW-8D 031717	MW-8D 5/16/2019 MW-8D 051619-20190516
Analyte	NYSDEC AWQS ¹	Unit												
PFAS (E537/E1633)														
11-Chloroeicosfluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NSL	ng/L	NA	NA	< 3.8 U	NA	NA	NA	< 3.6 U	< 3.6 U	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	NA	< 82 U	< 3.8 U	NA	NA	< 17 U	< 3.6 U	< 3.6 U	NA	NA	NA	< 17 U
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	NA	< 3.8 U	NA	NA	NA	< 3.6 U	< 3.6 U	NA	NA	NA	NA
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	< 82 U	< 3.8 U	NA	NA	< 17 U	< 3.6 U	< 3.6 U	NA	NA	NA	< 17 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	NA	< 47 U	NA	NA	NA	< 45 U	< 46 U	NA	NA	NA	NA
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	NA	< 47 U	NA	NA	NA	< 45 U	< 46 U	NA	NA	NA	NA
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	NA	< 9.5 U	NA	NA	NA	< 9.1 U	< 9.1 U	NA	NA	NA	NA
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	NA	< 3.8 U	NA	NA	NA	< 3.6 U	< 3.6 U	NA	NA	NA	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	NA	NA	< 3.8 U	NA	NA	NA	< 3.6 U	< 3.6 U	NA	NA	NA	NA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	NA	< 3.8 U	NA	NA	NA	< 3.6 U	< 3.6 U	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	NA	NA	< 0.95 U	NA	NA	NA	< 0.91 U	< 0.91 U	NA	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	NA	< 82 UJ	< 0.95 U	NA	NA	< 17 UJ	< 0.91 U	< 0.91 U	NA	NA	NA	< 17 U
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	NA	< 9.5 U	NA	NA	NA	< 9.1 U	< 9.1 U	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamide (NMtFOSA)	NSL	ng/L	NA	NA	< 0.95 U	NA	NA	NA	< 0.91 U	< 0.91 U	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoacetic acid (NMtFOSAA)	NSL	ng/L	NA	< 82 UJ	< 0.95 U	NA	NA	< 17 UJ	< 0.91 U	< 0.91 U	NA	NA	NA	< 17 UJ
N-methyl perfluorooctanesulfonamidoethanol (NMtFOSE)	NSL	ng/L	NA	NA	< 9.5 U	NA	NA	NA	< 9.1 U	< 9.1 U	NA	NA	NA	NA
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	NSL	ng/L	NA	NA	< 1.9 U	NA	NA	NA	< 1.8 U	< 1.8 U	NA	NA	NA	NA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	NSL	ng/L	NA	NA	< 1.9 U	NA	NA	NA	< 1.8 U	< 1.8 U	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	NA	< 1.9 U	NA	NA	NA	< 1.8 U	< 1.8 U	NA	NA	NA	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	NA	< 1.9 U	NA	NA	NA	< 1.8 U	< 1.8 U	NA	NA	NA	NA
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	< 2.0 U	8.1 J	< 0.95 U	NA	2	2.2 J	1.5	1.7	NA	NA	< 0.92 U	< 1.7 UJ
Perfluorobutanoic Acid	NSL	ng/L	NA	< 8.2 U	< 3.8 U	NA	NA	< 1.7 U	1.9 J	1.9 J	NA	NA	NA	1.0 J
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	NA	< 8.2 U	< 0.95 U	NA	NA	< 1.7 U	< 0.91 U	< 0.91 U	NA	NA	NA	< 1.7 U
Perfluorodecanoic acid (PFDA)	NSL	ng/L	NA	< 8.2 U	< 0.95 U	NA	NA	< 1.7 UJ	0.17 J	< 0.91 U	NA	NA	NA	< 1.7 U
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	NA	< 0.95 U	NA	NA	NA	< 0.91 U	< 0.91 U	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	NA	< 8.2 U	< 0.95 U	NA	NA	< 1.7 UJ	< 0.91 U	< 0.91 U	NA	NA	NA	< 1.7 UJ
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	NA	< 8.2 U	< 0.95 U	NA	NA	< 1.7 U	0.65 J	0.84 J	NA	NA	NA	< 1.7 U
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	2.9	42 J	< 0.95 U	NA	3.1	2	1.7	1.5	NA	NA	< 0.80 U	1.1 J
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	3.2	13 J	< 0.95 U	NA	1.2 J	1.9 J	0.98	1.2	NA	NA	< 0.87 U	< 1.7 UJ
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	NA	26 J	< 0.95 U	NA	NA	< 1.7 UJ	1.2	1.2	NA	NA	NA	1.4 J
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	NA	NA	< 0.95 U	NA	NA	NA	< 0.91 U	< 0.91 U	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	NSL	ng/L	< 2.0 U	< 8.2 U	< 0.95 U	NA	< 0.65 U	0.90 J	1.6	1.5	NA	NA	< 0.65 U	0.24 J
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	NA	< 8.2 U	< 0.95 U	NA	NA	< 1.7 U	< 0.91 U	< 0.91 U	NA	NA	NA	< 1.7 U
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	46	52 J	< 0.95 U	NA	14	36 J	47	47	NA	NA	< 1.3 U	2.1 UJ
Perfluorooctanoic acid (PFOA)	6.7	ng/L	16	150 J	< 0.95 U	NA	11	8.5	8.8	8.9	NA	NA	1.3 J	2.7 J
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	NA	< 0.95 U	NA	NA	NA	0.29 J	0.27 J	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	NA	17	< 1.9 U	NA	NA	1.3 J	0.87 J	0.89 J	NA	NA	NA	2.2
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	NA	< 8.2 U	< 0.95 U	NA	NA	< 1.7 UJ	< 0.91 U	< 0.91 U	NA	NA	NA	< 1.7 UJ
Perfluorotridecanoic Acid (PFTriA/PFTTrDA)	NSL	ng/L	NA	< 8.2 U	< 0.95 U	NA	NA	< 1.7 U	< 0.91 U	< 0.91 U	NA	NA	NA	< 1.7 U
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	NA	< 8.2 UJ	< 0.95 U	NA	NA	< 1.7 UJ	< 0.91 U	< 0.91 U	NA	NA	NA	< 1.7 U
VOCs (SW8260)														
1,1,1,2-Tetrachloroethane	5	µg/L	< 2.0 U	NA	NA	< 1.0 U	< 0.35 U	NA	NA	NA	NA	< 1.0 U	< 0.35 U	NA
1,1,1-Trichloroethane (TCA)	5	µg/L	< 2.0 U	< 1.0 U	< 1 U	< 1.0 U	< 0.82 U	< 1.0 U	< 1 U	< 1 U	< 1.0 U	< 1.0 U	< 0.82 U	< 1.0 U
1,1,2,2-Tetrachloroethane	5	µg/L	< 2.0 U	< 1.0 U	< 0.5 U	< 1.0 U	< 0.21 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.21 U	< 1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 2.0 U	< 1.0 U	< 1 U	< 1.0 U	< 0.31 U	< 1.0 U	< 1 U	< 1 U	< 1.0 U	< 1.0 U	< 0.31 U	< 1.0 U
1,1,2-Trichloroethane	1	µg/L	< 2.0 U	< 1.0 U	< 1 U	< 1.0 U	< 0.23 U	< 1.0 U	< 1 U	< 1 U	< 1.0 U	< 1.0 U	< 0.23 U	< 1.0 U
1,1-Dichloroethane	5	µg/L	< 2.0 U	< 1.0 U	< 1 U	< 1.0 U	< 0.38 U	< 1.0 U	< 1 U	< 1 U	< 1.0 U	< 1.0 U	< 0.38 U	< 1.0 U
1,1-Dichloroethene	5	µg/L	< 2.0 U	< 1.0 U	< 1 U	< 1.0 U	< 0.29 U	< 1.0 U	< 1 U	< 1 U	< 1.0 U	< 1.0 U	< 0.29 U	< 1.0 U
1,1-Dichloropropene	5	µg/L	< 2.0 U	NA	NA	< 1.0 U	< 0.72 U	NA	NA	NA	NA	< 1.0 U	< 0.72 U	NA
1,2,3-Trichlorobenzene	5	µg/L	< 2.0 U	NA	< 5 U	< 1.0 U	< 0.41 U	NA	< 5 U	< 5 U	NA	< 1.0 U	< 0.41 U	NA
1,2,3-Trichloropropane	0.04	µg/L	< 2.0 U	NA	NA	< 1.0 U	< 0.89 U	NA	NA	NA	NA	< 1.0 U	< 0.89 U	NA
1,2,4-Trichlorobenzene	5	µg/L	< 2.0 U	< 1.0 U	< 1 U	< 1.0 U	< 0.41 U	< 1.0 U	< 1 U	< 1 U	< 1.0 U	< 1.0 U	< 0.41 U	< 1.0 U
1,2,4-Trimethylbenzene	NSL	µg/L	130	68	NA	< 1.0 U	< 0.75 U	< 1.0 U	NA	NA	NA	< 1.0 U	< 0.75 U	< 1.0 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 2.0 U	< 1.0 U	< 5 U	< 1.0 U	< 0.39 U	< 1.0 U	< 5 U	< 5 U	< 1.0 U	< 1.0 U	< 0.39 U	< 1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	NSL	µg/L	< 2.0 U	< 1.0 U	< 0.5 U	< 1.0 U	< 0.73 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.73 U	< 1.0 U
1,2-Dichlorobenzene	3	µg/L	8.7	3.6	2.6	< 1.0 U	< 0.79 U	< 1.0 U	< 1 U	< 1 U	< 1.0 U	< 1.0 U	< 0.79 U	< 1.0 U
1,2-Dichloroethane	0.6	µg/L	< 2.0 U	< 1.0 U	< 1 U	< 1.0 U	< 0.21 U	< 1.0 U	< 1 U	< 1 U	< 1.0 U	< 1.0 U	< 0.21 U	< 1.0 U
1,2-Dichloropropane	1	µg/L	< 2.0 U	< 1.0 U	< 1 U	< 1.0 U	< 0.72 U	< 1.0 U	< 1 U	< 1 U	< 1.0 U	< 1.0 U	< 0.72 U	< 1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	NSL	µg/L	42	21	NA	< 1.0 U	< 0.77 U	< 1.0 U	NA	NA	NA	< 1.0 U	< 0.77 U	< 1.0 U
1,3-Dichlorobenzene	3	µg/L	< 2.0 U	< 1.0 U	< 1 U	< 1.0 U	< 0.78 U	< 1.0 U	< 1 U	< 1 U	< 1.0 U	< 1.0 U	< 0.78 U	< 1.0 U
1,3-Dichloropropane	5	µg/L	< 2.0 U	NA	NA	< 1.0 U	< 0.75 U	NA	NA	NA	NA	< 1.0 U	< 0.75 U	NA
1,4-Dichlorobenzene	3	µg/L	< 2.0 U	< 1.0 U	0.45 J	< 1.0 U	< 0.84 U	< 1.0 U	< 1 U	< 1 U	< 1.0 U	< 1.0 U	< 0.84 U	< 1.0 U
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	< 1.0 U	< 0.20 U	NA	NA	NA	NA	NA	< 0.20 U	NA
2,2-Dichloropropane	NSL	µg/L	< 2.0 U	NA	NA	< 1.0 U	< 0.40 U	NA	NA	NA	NA	< 1.0 U	< 0.40 U	NA
2-Chlorotoluene	NSL	µg/L	< 2.0 U	NA	NA	< 1.0 U	< 0.86 U	NA	NA	NA	NA	< 1.0 U	< 0.86 U	NA
2-Hexanone	50	µg/L	< 10 U	< 5.0 U	< 10 U	< 5.0 U	< 1.2 U	< 5.0 U	< 10 U	< 10 U	< 5.0 U	< 5.0 U	< 1.2 U	< 5.0 U
4-Chlorotoluene	NSL	µg/L	< 2.0 U	NA	NA	< 1.0 U	< 0.84 U	NA	NA	NA	NA	< 1.0 U	< 0.84 U	NA
Acetone	50	µg/L	11 J	< 5.0 U	2.4 J	< 10 U	< 3.0 U	< 5.0 U	< 50 U	< 50 U	< 10 U	< 10 U	3.0 J	< 5.0 U
Benzene	1	µg/L	< 2.0 U	< 1.0 U	< 1 U	< 1.0 U	< 0.41 U	< 1.0 U	< 1 U	< 1 U	< 1.0 U	< 1.0 U	< 0.41 U	< 1.0 U
Bromobenzene	NSL	µg/L	< 2.0 U	NA	NA	< 1.0 U	< 0.80 U	NA	NA	NA	NA	< 1.0 U	< 0.80 U	NA
Bromochloromethane	5	µg/L	< 2.0 U	NA	< 1 U	< 1.0 U	< 0.87 U	NA	< 1 U	< 1 U	NA	< 1.0 U	< 0.87 U	NA
Bromodichloromethane	50	µg/L	< 2.0 U	< 1.0 U	< 0.5 U	< 1.0 U	< 0.39 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.39 U	< 1.0 U
Bromoform	50	µg/L	< 2.0 U	< 1.0 U	< 1 U	< 1.0 U	< 0.26 U	< 1.0 U	< 1 U	< 1 U	< 1.0 U	< 1.0 U	< 0.26 U	< 1.0 U

Notes:

(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).

µg/L = Microgram(s) per liter

J = Concentration is estimated

J+ = Concentration is estimated, biased high

NA = Not analyzed

ng/L = Nanogram(s) per liter

NSL - No screening level available

U = Analyte not detected

Concentrations exceeding the screening level are shaded gray

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			MW-23 6/14/2017 MW-23 061417	MW-23 5/14/2019 MW-23 051419-20190514	MW-23 5/23/2023 518014-MW-23	MW-24 10/15/2015 MW-24-20151015	MW-24 3/17/2017 MW-24 031717	MW-24 5/15/2019 MW-24 051519-20190515	MW-24 5/23/2023 518014-MW-24	MW-24 5/23/2023 518014-DUP-1-GW 518014-MW-24_20230523	MW-8D 1/10/2012 MW-8D	MW-8D 10/15/2015 MW-8D-20151015	MW-8D 3/17/2017 MW-8D 031717	MW-8D 5/16/2019 MW-8D 051619-20190516
Analyte	NYSDEC AWQS ¹	Unit												
Bromomethane	5	µg/L	< 2.0 U	< 1.0 U	< 2 U	< 1.0 U	< 0.69 U	< 1.0 U	< 2 U	< 2 U	< 1.0 U	< 1.0 U	< 0.69 U	< 1.0 U
Carbon Disulfide	60	µg/L	1.3 J	0.30 J	< 5 U	< 1.0 U	< 0.19 U	< 1.0 U	< 5 U	< 5 U	< 1.0 U	< 1.0 U	< 0.19 U	< 1.0 U
Carbon Tetrachloride	5	µg/L	< 2.0 U	< 1.0 U	< 5 U	< 1.0 U	< 0.27 U	< 1.0 U	< 5 U	< 5 U	< 1.0 U	< 1.0 U	< 0.27 U	< 1.0 U
Chlorobenzene	5	µg/L	< 2.0 U	< 1.0 U	< 1 U	< 1.0 U	< 0.75 U	< 1.0 U	< 1 U	< 1 U	< 1.0 U	< 1.0 U	< 0.75 U	< 1.0 U
Chloroethane	5	µg/L	1.5 J	< 1.0 U	< 2 U	< 1.0 U	< 0.32 U	< 1.0 U	< 2 U	< 2 U	< 1.0 U	< 1.0 U	< 0.32 U	< 1.0 U
Chloroform	7	µg/L	< 2.0 U	< 1.0 U	< 2 U	< 1.0 U	< 0.34 U	< 1.0 U	< 2 U	< 2 U	< 1.0 U	< 1.0 U	< 0.34 U	< 1.0 U
Chloromethane (Methyl Chloride)	NSL	µg/L	0.82 J	< 1.0 U	< 2 U	< 1.0 U	< 0.35 U	< 1.0 U	< 2 U	< 2 U	< 1.0 U	< 1.0 U	< 0.35 U	< 1.0 U
Cis-1,2-Dichloroethylene	5	µg/L	2.3	2.1	1.3	< 1.0 U	< 0.81 U	< 1.0 U	< 1 U	< 1 U	< 1.0 U	< 1.0 U	< 0.81 U	< 1.0 U
Cis-1,3-Dichloropropene	0.4	µg/L	< 2.0 U	< 1.0 U	< 0.5 U	< 1.0 U	< 0.36 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.36 U	< 1.0 U
Cyclohexane	NSL	µg/L	1.3 J	0.67 J	< 5 U	< 1.0 U	< 0.18 U	< 1.0 U	< 5 U	< 5 U	< 1.0 U	< 1.0 U	< 0.18 U	< 1.0 U
Cymene	NSL	µg/L	6	1.4	NA	< 1.0 U	< 0.31 U	< 1.0 U	NA	NA	NA	< 1.0 U	< 0.31 U	< 1.0 U
Dibromochloromethane	50	µg/L	< 2.0 U	< 1.0 U	< 0.5 U	< 1.0 U	< 0.32 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.32 U	< 1.0 U
Dibromomethane	5	µg/L	< 2.0 U	NA	NA	< 1.0 U	< 0.41 U	NA	NA	NA	NA	< 1.0 U	< 0.41 U	NA
Dichlorodifluoromethane	5	µg/L	< 2.0 U	< 1.0 U	< 2 U	< 1.0 U	< 0.68 U	< 1.0 U	< 2 U	< 2 U	< 1.0 U	< 1.0 U	< 0.68 U	< 1.0 U
Ethylbenzene	5	µg/L	32	16	7.1	< 1.0 U	< 0.74 U	< 1.0 U	< 1 U	< 1 U	< 1.0 U	< 1.0 U	< 0.74 U	< 1.0 U
Hexachlorobutadiene	0.5	µg/L	< 2.0 U	NA	NA	< 1.0 U	< 0.28 U	NA	NA	NA	NA	< 1.0 U	< 0.28 U	NA
Iodomethane (Methyl Iodide)	NSL	µg/L	< 2.0 U	NA	NA	< 1.0 U	< 0.30 U	NA	NA	NA	NA	< 1.0 U	< 0.30 U	NA
Isopropylbenzene (Cumene)	5	µg/L	7.8	3.5	3.9	< 1.0 U	< 0.79 U	< 1.0 U	< 1 U	< 1 U	< 1.0 U	< 1.0 U	< 0.79 U	< 1.0 U
Methyl Acetate	NSL	µg/L	< 5.0 U	< 5.0 U	< 1 U	< 2.5 U	< 1.3 U	< 5.0 U	< 1 U	< 1 U	< 1.0 U	< 2.5 U	< 1.3 U	< 5.0 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	< 20 U	4.3 J	2.8 J	2.2 J	< 1.3 U	< 5.0 U	< 20 U	< 20 U	< 10 U	< 10 U	< 1.3 U	< 5.0 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 10 U	< 5.0 U	< 10 U	< 5.0 U	< 2.1 U	< 5.0 U	< 10 U	< 10 U	< 5.0 U	< 5.0 U	< 2.1 U	< 5.0 U
Methylcyclohexane	NSL	µg/L	3.2	0.74 J	1.2	< 1.0 U	< 0.16 U	< 1.0 U	< 1 U	< 1 U	< 1.0 U	< 1.0 U	< 0.16 U	< 1.0 U
Methylene Chloride	5	µg/L	< 2.0 U	< 1.0 U	< 5 U	< 1.0 U	< 0.44 U	< 1.0 U	< 5 U	< 5 U	< 1.0 U	< 1.0 U	< 0.44 U	< 1.0 U
M-P-Xylene	NSL	µg/L	95	74	NA	< 2.0 U	< 0.66 U	< 1.0 U	NA	NA	< 2.0 U	< 2.0 U	< 0.66 U	< 1.0 U
Naphthalene	10	µg/L	18	6.9	NA	< 1.0 U	< 0.43 U	< 1.0 U	NA	NA	NA	< 1.0 U	< 0.43 U	< 1.0 U
N-Butylbenzene	5	µg/L	7.9	0.86 J	NA	< 1.0 U	< 0.64 U	< 1.0 U	NA	NA	NA	< 1.0 U	< 0.64 U	< 1.0 U
N-Propylbenzene	NSL	µg/L	12	5.6	NA	< 1.0 U	< 0.69 U	< 1.0 U	NA	NA	NA	< 1.0 U	< 0.69 U	< 1.0 U
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	83	40	NA	< 1.0 U	< 0.76 U	< 1.0 U	NA	NA	< 1.0 U	< 1.0 U	< 0.76 U	< 1.0 U
Sec-Butylbenzene	5	µg/L	4.3	1.3	NA	< 1.0 U	< 0.75 U	< 1.0 U	NA	NA	NA	< 1.0 U	< 0.75 U	< 1.0 U
Styrene	5	µg/L	< 2.0 U	< 1.0 U	< 1 U	< 1.0 U	< 0.73 U	< 1.0 U	< 1 U	< 1 U	< 1.0 U	< 1.0 U	< 0.73 U	< 1.0 U
T-Butylbenzene	5	µg/L	< 2.0 U	< 1.0 U	NA	< 1.0 U	< 0.81 U	< 1.0 U	NA	NA	NA	< 1.0 U	< 0.81 U	< 1.0 U
Tert-Butyl Methyl Ether	10	µg/L	< 2.0 U	< 1.0 U	< 1 U	< 1.0 U	< 0.16 U	< 1.0 U	< 1 U	< 1 U	< 1.0 U	< 1.0 U	< 0.16 U	< 1.0 U
Tetrachloroethylene (PCE)	5	µg/L	< 2.0 U	< 1.0 U	0.98 J	< 1.0 U	< 0.36 U	< 1.0 U	< 1 U	< 1 U	< 1.0 U	< 1.0 U	< 0.36 U	< 1.0 U
Toluene	5	µg/L	< 2.0 U	< 1.0 U	0.81 J	< 1.0 U	< 0.51 U	< 1.0 U	< 1 U	< 1 U	< 1.0 U	< 1.0 U	< 0.51 U	< 1.0 U
Trans-1,2-Dichloroethene	5	µg/L	< 2.0 U	< 1.0 U	< 1 U	< 1.0 U	< 0.90 U	< 1.0 U	< 1 U	< 1 U	< 1.0 U	< 1.0 U	< 0.90 U	< 1.0 U
Trans-1,3-Dichloropropene	0.4	µg/L	< 2.0 U	< 1.0 U	< 0.5 U	< 1.0 U	< 0.37 U	< 1.0 U	< 0.5 U	< 0.5 U	< 1.0 U	< 1.0 U	< 0.37 U	< 1.0 U
Trichloroethylene (TCE)	5	µg/L	< 2.0 U	< 1.0 U	0.76 J	< 1 U	< 1.0 U	< 0.46 U	< 1 U	< 1 U	< 1.0 U	< 1.0 U	< 0.46 U	< 1.0 U
Trichlorofluoromethane	5	µg/L	< 2.0 U	< 1.0 U	< 2 U	< 1.0 U	< 0.88 U	< 1.0 U	< 2 U	< 2 U	< 1.0 U	< 1.0 U	< 0.88 U	< 1.0 U
Vinyl Acetate	NSL	µg/L	< 10 U	NA	NA	< 5.0 U	< 0.85 U	NA	NA	NA	NA	< 5.0 U	< 0.85 U	NA
Vinyl Chloride	2	µg/L	< 2.0 U	< 1.0 U	< 2 U	< 1.0 U	< 0.90 U	< 1.0 U	< 2 U	< 2 U	< 1.0 U	< 1.0 U	< 0.90 U	< 1.0 U
Xylenes	5	µg/L	180	110	36	< 2.0 U	< 0.66 U	< 2.0 U	< 1 U	< 1 U	< 2.0 U	< 2.0 U	< 0.66 U	< 2.0 U
Pesticides (SW8081)														
Alachlor	NSL	µg/L	NA	NA	< 0.18 U	NA	NA	NA	< 0.19 U	< 0.18 U	NA	NA	NA	NA
Aldrin	NSL	µg/L	< 0.050 U	< 0.020 U	< 0.045 U	< 0.050 U	< 0.0081 U	< 0.020 U	< 0.047 U	< 0.045 U	< 0.25 U	< 0.049 U	< 0.0081 U	< 0.020 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	NSL	µg/L	< 0.050 U	< 0.020 U	< 0.045 U	< 0.050 U	< 0.0077 U	< 0.020 U	< 0.047 U	< 0.045 U	< 0.25 U	< 0.049 U	< 0.0077 U	< 0.020 U
Alpha Endosulfan	NSL	µg/L	< 0.050 U	< 0.020 U	< 0.045 U	< 0.050 U	< 0.011 U	< 0.020 U	< 0.047 U	< 0.045 U	< 0.25 U	< 0.049 U	< 0.011 U	< 0.020 U
Beta Bhc (Beta Hexachlorocyclohexane)	NSL	µg/L	< 0.050 U	< 0.020 U	< 0.045 U	< 0.050 U	< 0.025 U	< 0.020 U	< 0.047 U	< 0.045 U	< 0.25 U	< 0.049 U	< 0.025 U	< 0.020 U
Beta Endosulfan	NSL	µg/L	< 0.050 U	< 0.020 U	< 0.071 U	< 0.050 U	< 0.012 U	< 0.020 U	< 0.075 U	< 0.073 U	< 0.25 U	< 0.049 U	< 0.012 U	< 0.020 U
Chlordane	0.05	µg/L	NA	NA	< 0.18 U	NA	NA	NA	< 0.19 U	< 0.18 U	NA	NA	NA	NA
Chlordane (Technical)	NSL	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25 U	NA	NA	NA
cis-Chlordane	NSL	µg/L	< 0.050 U	< 0.020 U	NA	< 0.050 U	< 0.015 U	< 0.020 U	NA	NA	< 0.25 U	< 0.049 U	< 0.015 U	< 0.020 U
Delta BHC (Delta Hexachlorocyclohexane)	NSL	µg/L	< 0.050 U	< 0.020 U	< 0.045 U	< 0.050 U	< 0.010 U	< 0.020 U	< 0.047 U	< 0.045 U	< 0.25 U	< 0.049 U	< 0.010 U	< 0.020 U
Dieldrin	0.004	µg/L	< 0.050 U	< 0.020 U	< 0.0018 U	< 0.050 U	< 0.0098 U	< 0.020 U	< 0.0019 U	< 0.0018 U	< 0.25 U	< 0.049 U	< 0.0098 U	< 0.020 U
Endosulfan Sulfate	NSL	µg/L	< 0.050 U	< 0.020 U	< 0.071 U	< 0.050 U	< 0.016 U	< 0.020 U	< 0.075 U	< 0.073 U	< 0.25 U	< 0.049 U	< 0.016 U	< 0.020 U
Endrin	NSL	µg/L	< 0.050 U	< 0.020 U	< 0.071 U	< 0.050 U	< 0.014 U	< 0.020 U	< 0.075 U	< 0.073 U	< 0.25 U	< 0.049 U	< 0.014 U	< 0.020 U
Endrin Aldehyde	5	µg/L	< 0.050 U	< 0.020 U	< 0.071 U	< 0.050 U	< 0.016 U	< 0.020 U	< 0.075 U	< 0.073 U	< 0.25 U	< 0.049 U	< 0.016 U	< 0.020 U
Endrin Ketone	5	µg/L	< 0.050 U	< 0.020 U	< 0.071 U	< 0.050 U	< 0.012 U	< 0.020 U	< 0.075 U	< 0.073 U	< 0.25 U	< 0.049 U	< 0.012 U	< 0.020 U
Gamma Bhc (Lindane)	NSL	µg/L	< 0.050 U	< 0.020 U	< 0.027 U	< 0.050 U	< 0.0080 U	< 0.020 U	< 0.028 U	< 0.027 U	< 0.25 U	< 0.049 U	< 0.0080 U	< 0.020 U
Heptachlor	0.04	µg/L	< 0.050 U	< 0.020 U	< 0.045 U	< 0.050 U	< 0.0085 U	< 0.020 U	< 0.047 U	< 0.045 U	< 0.25 U	< 0.049 U	< 0.0085 U	< 0.020 U
Heptachlor Epoxide	0.03	µg/L	< 0.050 U	< 0.020 U	< 0.045 U	< 0.050 U	< 0.0074 U	< 0.020 U	< 0.047 U	< 0.045 U	< 0.25 U	< 0.049 U	< 0.0074 U	< 0.020 U
Hexachlorobenzene	0.04	µg/L	NA	NA	0.021 J	NA	NA	NA	< 0.047 U	< 0.045 U	NA	NA	NA	NA
Methoxychlor	35	µg/L	< 0.050 U	< 0.020 U	< 0.45 U	< 0.050 U	< 0.014 U	< 0.020 U	< 0.47 U	< 0.45 U	< 0.25 U	< 0.049 U	< 0.014 U	< 0.020 U
P,P'-DDD	0.3	µg/L	< 0.050 U	< 0.020 U	< 0.036 U	< 0.050 U	< 0.0092 U	< 0.020 U	< 0.038 U	< 0.036 U	< 0.25 U	< 0.049 U	< 0.0092 U	< 0.020 U
P,P'-DDE	0.2	µg/L	< 0.050 U	< 0.020 U	< 0.036 U	< 0.050 U	< 0.012 U	< 0.020 U	< 0.038 U	< 0.036 U	< 0.25 U	< 0.049 U	< 0.012 U	< 0.020 U
P,P'-DDT	0.2	µg/L	< 0.050 U	< 0.020 U	< 0.036 U	< 0.050 U	< 0.011 U	< 0.020 U	< 0.038 U	< 0.036 U	< 0.25 U	< 0.049 U	< 0.011 U	< 0.020 U
Toxaphene	0.06	µg/L	< 0.50 U	< 0.50 U	< 0.89 U	< 0.50 U	< 0.12 U	< 0.50 U	< 0.94 U	< 0.91 U	< 2.5 U	< 0.49 U	< 0.12 U	< 0.50 U
trans-Chlordane	NSL	µg/L	< 0.050 U	< 0.020 U	NA	< 0.050 U	< 0.011 U	< 0.020 U	NA	NA	NA	< 0.049 U	< 0.011 U	< 0.020 U

Notes:

(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).

µg/L = Microgram(s) per liter

J = Concentration is estimated

J+ = Concentration is estimated, biased high

NA = Not analyzed

ng/L = Nanogram(s) per liter

NSL = No screening level available

U = Analyte not detected

Con

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			MW-23 6/14/2017 MW-23 061417	MW-23 5/14/2019 MW-23 051419-20190514	MW-23 5/23/2023 518014-MW-23	MW-24 10/15/2015 MW-24-20151015	MW-24 3/17/2017 MW-24 031717	MW-24 5/15/2019 MW-24 051519-20190515	MW-24 5/23/2023 518014-MW-24	MW-24 5/23/2023 518014-MW-24 20230523	MW-8D 1/10/2012 MW-8D	MW-8D 10/15/2015 MW-8D-20151015	MW-8D 3/17/2017 MW-8D 031717	MW-8D 5/16/2019 MW-8D 051619-20190516
Analyte	NYSDEC AWQS ¹	Unit												
SVOCs (SW8270)														
1,2,4,5-Tetrachlorobenzene	NSL	µg/L	NA	NA	<9.1 U	NA	NA	NA	<9.4 U	<9.2 U	NA	NA	NA	NA
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	<0.19 U	NA	<0.20 U	NA	<0.19 U	<0.19 U	NA	NA	<0.20 U	<0.40 U
2,4,5-Trichlorophenol	NSL	µg/L	<5.0 U	<10 U	<9.1 U	<5.2 U	<0.48 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.48 U	<10 U
2,4,6-Trichlorophenol	NSL	µg/L	<5.0 U	<10 U	<9.1 U	<5.2 U	<0.61 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.61 U	<10 U
2,4-Dichlorophenol	5	µg/L	<5.0 U	<10 U	<9.1 U	<5.2 U	<0.51 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.51 U	<10 U
2,4-Dimethylphenol	50	µg/L	5	1.4 J	<9.1 U	<5.2 U	<0.50 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.50 U	<10 U
2,4-Dinitrophenol	10	µg/L	<10 U	<20 U	<18 UJ	<10 U	<2.2 U	<20 U	<9.4 UJ	<9.2 UJ	<4.7 U	<10 U	<2.2 U	<20 U
2,4-Dinitrotoluene	5	µg/L	<5.0 U	<2.0 U	<9.1 U	<5.2 U	<0.45 U	<2.0 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.45 U	<2.0 U
2,6-Dinitrotoluene	5	µg/L	<5.0 U	<2.0 U	<9.1 U	<5.2 U	<0.40 U	<2.0 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.40 U	<2.0 U
2-Chloronaphthalene	10	µg/L	<5.0 U	<10 U	<9.1 U	<5.2 U	<0.46 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.46 U	<10 U
2-Chlorophenol	1	µg/L	<5.0 U	<10 U	<9.1 U	<5.2 U	<0.53 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.53 U	<10 U
2-Methylnaphthalene	NSL	µg/L	0.67 J	<10 U	<4.5 U	<5.2 U	<0.60 U	<10 U	<4.7 U	<4.6 U	<4.7 U	<5.1 U	<0.60 U	<10 U
2-Methylphenol (O-Cresol)	NSL	µg/L	<5.0 U	<10 U	<9.1 U	<5.2 U	<0.40 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.40 U	<10 U
2-Nitroaniline	5	µg/L	<10 U	<10 U	<9.1 U	<10 U	<0.42 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<10 U	<0.42 U	<10 U
2-Nitrophenol	NSL	µg/L	<5.0 U	<10 U	<9.1 U	<5.2 U	<0.48 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.48 U	<10 U
3- And 4- Methylphenol (Total)	NSL	µg/L	NA	NA	<9.1 U	NA	NA	NA	<9.4 U	<9.2 U	NA	NA	NA	NA
3,3'-Dichlorobenzidine	5	µg/L	<5.0 U	<10 U	<9.1 U	<5.2 U	<0.40 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.40 U	<10 U
3-Nitroaniline	5	µg/L	<10 U	<10 U	<9.1 UJ	<10 U	<0.48 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<10 U	<0.48 U	<10 U
4,6-Dinitro-2-Methylphenol	NSL	µg/L	<10 U	<20 U	<18 UJ	<10 U	<2.2 U	<20 U	<19 UJ	<18 UJ	<4.7 U	<10 U	<2.2 U	<20 U
4-Bromophenyl Phenyl Ether	NSL	µg/L	<5.0 U	<10 U	<9.1 U	<5.2 U	<0.45 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.45 U	<10 U
4-Chloro-3-Methylphenol	NSL	µg/L	<5.0 U	<10 U	<9.1 U	<5.2 U	<0.45 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.45 U	<10 U
4-Chloroaniline	5	µg/L	<5.0 U	<10 U	<9.1 U	<5.2 U	<0.59 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.59 U	<10 U
4-Chlorophenyl Phenyl Ether	NSL	µg/L	<5.0 U	<10 U	<9.1 U	<5.2 U	<0.35 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.35 U	<10 U
4-Methylphenol (P-Cresol)	NSL	µg/L	1.6 J	<10 U	NA	<10 U	<0.36 U	<10 U	NA	NA	<4.7 U	<10 U	<0.36 U	<10 U
4-Nitroaniline	5	µg/L	<10 U	<10 U	<9.1 UJ	<10 U	<0.25 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<10 U	<0.25 U	<10 U
4-Nitrophenol	NSL	µg/L	<10 U	<20 U	<18 U	<10 U	<1.5 U	<20 U	<9.4 U	<9.2 U	<4.7 U	<10 U	<1.5 U	<20 U
Acenaphthene	20	µg/L	<5.0 U	<10 U	<4.5 U	<5.2 U	<0.41 U	<10 U	<4.7 U	<4.6 U	<4.7 U	<5.1 U	<0.41 U	<10 U
Acenaphthylene	NSL	µg/L	<5.0 U	<10 U	<4.5 U	<5.2 U	<0.38 U	<10 U	<4.7 U	<4.6 U	<4.7 U	<5.1 U	<0.38 U	<10 U
Acetophenone	NSL	µg/L	18	<10 U	<9.1 U	<5.2 U	<0.54 U	<10 U	<9.4 U	<9.2 U	<4.7 U	1.1 J	<0.54 U	<10 U
Anthracene	50	µg/L	<5.0 U	<10 U	<4.5 U	<5.2 U	<0.28 U	<10 U	<4.7 U	<4.6 U	<4.7 U	<5.1 U	<0.28 U	<10 U
Atrazine	NSL	µg/L	<5.0 U	<2.0 U	<18 U	<5.2 U	<0.46 U	<2.0 U	<19 U	<18 U	<4.7 U	<5.1 U	<0.46 U	<2.0 U
Benzaldehyde	NSL	µg/L	<5.0 U	<10 U	<9.1 UJ	<5.2 U	<0.27 U	<10 U	<9.4 UJ	<9.2 UJ	<4.7 U	<5.1 U	<0.27 U	<10 U
Benzo(A)Anthracene	0.002	µg/L	<5.0 U	<1.0 U	<4.5 U	<5.2 U	<0.36 U	<1.0 U	<4.7 U	<4.6 U	<4.7 U	<5.1 U	<0.36 U	<1.0 U
Benzo(A)Pyrene	NSL	µg/L	<5.0 U	<1.0 U	<4.5 U	<5.2 U	<0.47 U	<1.0 U	<4.7 U	<4.6 U	<4.7 U	<5.1 U	<0.47 U	<1.0 U
Benzo(B)Fluoranthene	0.002	µg/L	<5.0 U	<2.0 U	<4.5 U	<5.2 U	<0.34 U	<2.0 U	<4.7 U	<4.6 U	<4.7 U	<5.1 U	<0.34 U	<2.0 U
Benzo(G,H,I)Perylene	NSL	µg/L	<5.0 U	<10 U	<4.5 U	<5.2 U	<0.35 U	<10 U	<4.7 U	<4.6 U	<4.7 U	<5.1 U	<0.35 U	<10 U
Benzo(K)Fluoranthene	0.002	µg/L	<5.0 U	<1.0 U	<4.5 U	<5.2 U	<0.73 U	<1.0 U	<4.7 U	<4.6 U	<4.7 U	<5.1 U	<0.73 U	<1.0 U
Benzyl Butyl Phthalate	50	µg/L	<5.0 U	<10 U	<9.1 UJ	0.62 J	<1.0 U	<10 U	<9.4 UJ	<9.2 UJ	<4.7 U	0.60 J	<1.0 U	<10 U
Biphenyl (Diphenyl or 1,1'-Biphenyl)	5	µg/L	<5.0 U	<10 U	<18 U	<5.2 U	<0.65 U	<10 U	<19 U	<18 U	<4.7 U	<5.1 U	<0.65 U	<10 U
Bis(2-Chloroethoxy) Methane	5	µg/L	<5.0 U	<10 U	<9.1 U	<5.2 U	<0.35 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.35 U	<10 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	µg/L	<5.0 U	<1.0 U	<9.1 U	<5.2 U	<0.40 U	<1.0 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.40 U	<1.0 U
Bis(2-Chloroisopropyl) Ether	5	µg/L	<5.0 U	<10 U	<9.1 U	<5.2 U	<0.52 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.52 U	<10 U
Bis(2-Ethylhexyl) Phthalate	5	µg/L	<5.0 U	<2.0 U	<9.1 UJ	<5.2 U	<2.2 U	<2.0 U	<9.4 UJ	<9.2 UJ	<4.7 U	<5.1 U	<2.2 U	<2.0 U
Caprolactam	NSL	µg/L	<5.0 U	<10 U	<9.1 UJ	<5.2 U	<2.2 U	<10 U	<9.4 UJ	<9.2 UJ	<4.7 U	<5.1 U	<2.2 U	<10 U
Carbazole	NSL	µg/L	<5.0 U	<10 U	<9.1 U	<5.2 U	<0.30 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.30 U	<10 U
Chrysene	0.002	µg/L	<5.0 U	<2.0 U	<4.5 U	<5.2 U	<0.33 U	<2.0 U	<4.7 U	<4.6 U	<4.7 U	<5.1 U	<0.33 U	<2.0 U
Dibenz(A,H)Anthracene	NSL	µg/L	<5.0 U	<1.0 U	<4.5 U	<5.2 U	<0.42 U	<1.0 U	<4.7 U	<4.6 U	<4.7 U	<5.1 U	<0.42 U	<1.0 U
Dibenzofuran	NSL	µg/L	<10 U	<10 U	<4.5 U	<10 U	<0.51 U	<10 U	<4.7 U	<4.6 U	<4.7 U	<10 U	<0.51 U	<10 U
Diethyl Phthalate	50	µg/L	<5.0 U	<10 U	<9.1 U	<5.2 U	<0.22 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.22 U	<10 U
Dimethyl Phthalate	50	µg/L	<5.0 U	<10 U	<9.1 U	<5.2 U	<0.36 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.36 U	<10 U
Di-N-Butyl Phthalate	50	µg/L	0.56 J	<10 U	<9.1 U	<5.2 U	<0.31 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.31 U	<10 U
Di-N-Octylphthalate	50	µg/L	<5.0 U	<10 U	<9.1 UJ	0.73 J	<0.47 U	<10 U	<9.4 UJ	<9.2 UJ	<4.7 U	0.77 J	<0.47 U	<10 U
Fluoranthene	50	µg/L	<5.0 U	<10 U	<4.5 U	<5.2 U	<0.40 U	<10 U	<4.7 U	<4.6 U	<4.7 U	<5.1 U	<0.40 U	<10 U
Fluorene	50	µg/L	<5.0 U	<10 U	<4.5 U	<5.2 U	<0.36 U	<10 U	<4.7 U	<4.6 U	<4.7 U	<5.1 U	<0.36 U	<10 U
Hexachlorobenzene	0.04	µg/L	<5.0 U	<1.0 U	<9.1 U	<5.2 U	<0.51 U	<1.0 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.51 U	<1.0 U
Hexachlorobutadiene	0.5	µg/L	<5.0 U	<1.0 U	<9.1 U	<5.2 U	<0.68 U	<1.0 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.68 U	<1.0 U
Hexachlorocyclopentadiene	5	µg/L	<5.0 U	<10 U	<9.1 U	<5.2 U	<0.59 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.59 U	<10 U
Hexachloroethane	5	µg/L	<5.0 U	<2.0 U	<9.1 UJ	<5.2 U	<0.59 U	<2.0 U	<9.4 UJ	<9.2 UJ	<4.7 U	<5.1 U	<0.59 U	<2.0 U
Indeno(1,2,3-C,D)Pyrene	0.002	µg/L	<5.0 U	<2.0 U	<4.5 U	<5.2 U	<0.47 U	<2.0 U	<4.7 U	<4.6 U	<4.7 U	<5.1 U	<0.47 U	<2.0 U
Isophorone	50	µg/L	<5.0 U	<10 U	<9.1 U	<5.2 U	<0.43 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.43 U	<10 U
Naphthalene	10	µg/L	6.7	1.8 J	<4.5 U	<5.2 U	<0.76 U	<10 U	<4.7 U	<4.6 U	<4.7 U	<5.1 U	<0.76 U	<10 U
Nitrobenzene	0.4	µg/L	<5.0 U	<1.0 U	<9.1 U	<5.2 U	<0.29 U	<1.0 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.29 U	<1.0 U
N-Nitrosodi-N-Propylamine	NSL	µg/L	<5.0 U	<1.0 U	<9.1 U	<5.2 U	<0.54 U	<1.0 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.54 U	<1.0 U
N-Nitrosodiphenylamine	50	µg/L	<5.0 U	<10 U	<9.1 U	<5.2 U	<0.51 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.51 U	<10 U
Pentachlorophenol	1	µg/L	<10 U	<20 U	<9.1 U	<10 U	<0.0022 U	<20 U	<9.4 U	<9.2 U	<4.7 U	<10 U	<0.0022 U	<20 U
Phenanthrene	50	µg/L	<5.0 U	<10 U	<4.5 U	<5.2 U	<0.00044 U	<10 U	<4.7 U	<4.6 U	<4.7 U	<5.1 U	<0.00044 U	<10 U
Phenol	NSL	µg/L	<5.0 U	<10 U	<9.1 U	<5.2 U	<0.39 U	<10 U	<9.4 U	<9.2 U	<4.7 U	<5.1 U	<0.39 U	<10 U
Pyrene	50	µg/L	<5.0 U	<10 U	<4.5 U	<5.2 U	<0.34 U	<10 U	<4.7 U	<4.6 U	<4.7 U	<5.1 U	<0.34 U	<10 U

Notes:

(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).

µg/L = Microgram(s) per liter

J = Concentration is estimated

J+ = Concentration is estimated, biased high

NA = Not analyzed

ng/L = Nanogram(s) per liter

NSL = No screening level available

U = Analyte not detected

Concentrations exceeding the screening level are shaded gray

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			MW-8S 1/10/2012 MW-8S	MW-8S 10/15/2015 MW-8S-20151015	MW-8S 3/17/2017 MW-8S 031717	MW-8S 5/16/2019 MW-8S 051619-20190516	MW-8S 5/16/2019 DUP 051619-20190516 MW-8S 051619-20190516	MW-8S 5/23/2023 518014-MW-8S	VEW-1 1/10/2012 VEW-1	VEW-1 10/13/2015 VEW-1	VEW-1 3/16/2017 VEW-1 031617	VEW-1 5/14/2019 VEW-1 051419-20190514	VEW-1 5/23/2023 518014-VEW-1	VEW-2 1/10/2012 VEW-2
Analyte	NYSDEC AWQS ¹	Unit												
PFAS (E537/E1633)														
11-Chloroicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11CI-PF3OUdS)	NSL	ng/L	NA	NA	NA	NA	NA	< 3.6 U	NA	NA	NA	NA	< 3.6 U	NA
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	NA	NA	NA	< 17 U	< 17 U	< 3.6 U	NA	NA	NA	< 82 U	< 3.6 U	NA
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	< 3.6 U	NA	NA	NA	NA	< 3.6 U	NA
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	NA	NA	< 17 U	< 17 U	< 3.6 U	NA	NA	NA	< 82 U	< 3.6 U	NA
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	< 45 U	NA	NA	NA	NA	< 45 U	NA
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	< 45 U	NA	NA	NA	NA	< 45 U	NA
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	< 9.1 U	NA	NA	NA	NA	< 9 U	NA
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	NA	NA	NA	NA	< 3.6 U	NA	NA	NA	NA	< 3.6 U	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9CI-PF3ONS)	NSL	ng/L	NA	NA	NA	NA	NA	< 3.6 U	NA	NA	NA	NA	< 3.6 U	NA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	NA	NA	NA	NA	< 3.6 U	NA	NA	NA	NA	< 3.6 U	NA
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.91 U	NA	NA	NA	NA	< 0.9 U	NA
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	NA	NA	NA	1.7 J	< 17 UJ	< 0.91 U	NA	NA	NA	100 J	23	NA
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	< 9.1 U	NA	NA	NA	NA	< 9 U	NA
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.91 U	NA	NA	NA	NA	< 0.9 U	NA
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NSL	ng/L	NA	NA	NA	< 17 UJ	< 17 UJ	< 0.91 U	NA	NA	NA	< 82 U	< 0.9 U	NA
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	< 9.1 U	NA	NA	NA	NA	< 9 U	NA
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	NA	< 1.8 U	NA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	NA	< 1.8 U	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	NA	< 1.8 U	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	NA	< 1.8 U	NA
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	NA	NA	6.9	1.0 J	1.2 J	2.4	NA	NA	2	< 8.2 U	2	NA
Perfluorobutanoic Acid	NSL	ng/L	NA	NA	NA	< 1.7 UJ	< 1.7 UJ	< 3.6 U	NA	NA	NA	< 8.2 UJ	< 3.6 U	NA
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	NA	NA	NA	< 1.7 U	< 1.7 U	< 0.91 U	NA	NA	NA	< 8.2 U	< 0.9 U	NA
Perfluorodecanoic acid (PFDA)	NSL	ng/L	NA	NA	NA	< 1.7 UJ	< 1.7 UJ	< 0.91 U	NA	NA	NA	< 8.2 U	< 0.9 U	NA
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.91 U	NA	NA	NA	NA	< 0.9 U	NA
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	NA	NA	NA	< 1.7 UJ	< 1.7 UJ	< 0.91 U	NA	NA	NA	< 8.2 U	< 0.9 U	NA
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	NA	NA	NA	< 1.7 U	< 1.7 U	< 0.91 U	NA	NA	NA	15	16	NA
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	NA	NA	1.7 J	< 1.7 U	< 1.7 UJ	< 0.91 U	NA	NA	20	19	2.4	NA
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	NA	NA	2.4	1.0 J	< 1.7 UJ	0.97	NA	NA	14	30 J	5	NA
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	NA	NA	NA	< 1.7 UJ	< 1.7 UJ	< 0.91 U	NA	NA	NA	14	2.1	NA
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.91 U	NA	NA	NA	NA	< 0.9 U	NA
Perfluorononanoic acid (PFNA)	NSL	ng/L	NA	NA	< 0.65 U	< 1.7 UJ	< 1.7 UJ	< 0.91 U	NA	NA	2.5	6.3 J	1.9	NA
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	NA	NA	NA	< 1.7 U	< 1.7 U	< 0.91 U	NA	NA	NA	< 8.2 U	4.7	NA
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	NA	NA	17	8.0 UJ	< 1.7 UJ	1.3	NA	NA	1400	1500	1200 J	NA
Perfluorooctanoic acid (PFOA)	6.7	ng/L	NA	NA	5.2	0.69 J	0.59 J	< 0.91 U	NA	NA	110	76 J	34	NA
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.91 U	NA	NA	NA	NA	0.92	NA
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	NA	NA	NA	< 1.7 U	< 1.7 U	< 1.8 U	NA	NA	NA	6.1 J	1.6 J	NA
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	NA	NA	NA	< 1.7 UJ	< 1.7 UJ	< 0.91 U	NA	NA	NA	< 8.2 U	< 0.9 U	NA
Perfluorotridecanoic Acid (PFTriA/PFTriDA)	NSL	ng/L	NA	NA	NA	< 1.7 U	< 1.7 U	< 0.91 U	NA	NA	NA	< 8.2 U	< 0.9 U	NA
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	NA	NA	NA	< 1.7 U	< 1.7 U	< 0.91 U	NA	NA	NA	< 8.2 U	< 0.9 U	NA
VOCs (SW8260)														
1,1,1,2-Tetrachloroethane	5	µg/L	NA	< 1.0 U	< 0.35 U	NA	NA	NA	NA	< 2.0 U	< 0.70 U	NA	NA	NA
1,1,1,1-Trichloroethane (TCA)	5	µg/L	< 1.0 U	< 1.0 U	< 0.82 U	< 1.0 U	< 1.0 U	< 1 U	< 1.0 U	< 2.0 U	< 1.6 U	< 1.0 U	< 1 U	< 1.0 U
1,1,2,2-Tetrachloroethane	5	µg/L	< 1.0 U	< 1.0 U	< 0.21 U	< 1.0 U	< 1.0 U	< 0.5 U	< 1.0 U	< 2.0 U	< 0.42 U	< 1.0 U	0.25 J	< 1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 1.0 U	< 1.0 U	< 0.31 U	< 1.0 U	< 1.0 U	< 1 U	< 1.0 U	< 2.0 U	< 0.62 U	< 1.0 U	< 1 U	< 1.0 U
1,1,2-Trichloroethane	1	µg/L	< 1.0 U	< 1.0 U	< 0.23 U	< 1.0 U	< 1.0 U	< 1 U	< 1.0 U	< 2.0 U	< 0.46 U	< 1.0 U	< 1 U	< 1.0 U
1,1-Dichloroethane	5	µg/L	< 1.0 U	< 1.0 U	< 0.38 U	< 1.0 U	< 1.0 U	< 1 U	< 1.0 U	< 2.0 U	< 0.76 U	< 1.0 U	< 1 U	< 1.0 U
1,1-Dichloroethene	5	µg/L	< 1.0 U	< 1.0 U	< 0.29 U	< 1.0 U	< 1.0 U	< 1 U	< 1.0 U	< 2.0 U	< 0.58 U	< 1.0 U	< 1 U	< 1.0 U
1,1-Dichloropropene	5	µg/L	NA	< 1.0 U	< 0.72 U	NA	NA	NA	NA	< 2.0 U	< 1.4 U	NA	NA	NA
1,2,3-Trichlorobenzene	5	µg/L	NA	< 1.0 U	< 0.41 U	NA	NA	< 5 U	NA	< 2.0 U	< 0.82 U	NA	< 5 U	NA
1,2,3-Trichloropropane	0.04	µg/L	NA	< 1.0 U	< 0.89 U	NA	NA	NA	NA	< 2.0 U	< 1.8 U	NA	NA	NA
1,2,4-Trichlorobenzene	5	µg/L	< 1.0 U	< 1.0 U	< 0.41 U	< 1.0 U	< 1.0 U	< 1 U	< 1.0 U	< 2.0 U	< 0.82 U	< 1.0 U	< 1 U	< 1.0 U
1,2,4-Trimethylbenzene	NSL	µg/L	NA	2.7	< 0.75 U	< 1.0 U	< 1.0 U	NA	NA	240	51	230	NA	NA
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 1.0 U	< 1.0 U	< 0.39 U	< 1.0 U	< 1.0 U	< 5 U	< 1.0 U	< 2.0 U	< 0.78 U	< 1.0 U	< 5 U	< 1.0 U
1,2-Dibromooethane (Ethylene Dibromide)	NSL	µg/L	< 1.0 U	< 1.0 U	< 0.73 U	< 1.0 U	< 1.0 U	< 0.5 U	< 1.0 U	< 2.0 U	< 1.5 U	< 1.0 U	< 0.5 U	< 1.0 U
1,2-Dichlorobenzene	3	µg/L	< 1.0 U	1.8	< 0.79 U	< 1.0 U	< 1.0 U	< 1 U	24	19	3.9	15	1.7	< 1.0 U
1,2-Dichloroethane	0.6	µg/L	< 1.0 U	< 1.0 U	< 0.21 U	< 1.0 U	< 1.0 U	< 1 U	< 1.0 U	< 2.0 U	< 0.42 U	< 1.0 U	< 1 U	< 1.0 U
1,2-Dichloropropane	1	µg/L	< 1.0 U	< 1.0 U	< 0.72 U	< 1.0 U	< 1.0 U	< 1 U	< 1.0 U	< 2.0 U	< 1.4 U	< 1.0 U	< 1 U	< 1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	NSL	µg/L	NA	< 1.0 U	< 0.77 U	< 1.0 U	< 1.0 U	NA	NA	270	62	200	NA	NA
1,3-Dichlorobenzene	3	µg/L	< 1.0 U	< 1.0 U	< 0.78 U	< 1.0 U	< 1.0 U	< 1 U	< 1.0 U	< 2.0 U	< 1.6 U	< 1.0 U	< 1 U	< 1.0 U
1,3-Dichloropropane	5	µg/L	NA	< 1.0 U	< 0.75 U	NA	NA	NA	NA	< 2.0 U	< 1.5 U	NA	NA	NA
1,4-Dichlorobenzene	3	µg/L	< 1.0 U	< 1.0 U	< 0.84 U	< 1.0 U	< 1.0 U	< 1 U	< 1.0 U	< 2.0 U	< 1.7 U	1.2	< 1 U	< 1.0 U
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	< 0.20 U	NA	NA	NA	NA	NA	< 0.20 U	NA	NA	NA
2,2-Dichloropropane	NSL	µg/L	NA	< 1.0 U	< 0.40 U	NA	NA	NA	NA	< 2.0 U	< 0.80 U	NA	NA	NA
2-Chlorotoluene	NSL	µg/L	NA	< 1.0 U	< 0.86 U	NA	NA	NA	NA	< 2.0 U	< 1.7 U	NA	NA	NA
2-Hexanone	50	µg/L	< 5.0 U	< 5.0 U	< 1.2 U	< 5.0 U	< 5.0 U	< 10 U	< 5.0 U	< 10 U	< 2.5 U	< 5.0 U	< 10 U	< 5.0 U
4-Chlorotoluene	NSL	µg/L	NA	< 1.0 U	< 0.84 U	NA	NA	NA	NA	< 2.0 U	< 1.7 U	NA	NA	NA
Acetone	50	µg/L	< 10 U	< 10 U	< 3.0 U	< 5.0 U	< 5.0 U	< 50 U	62 J	37	6.5 J	< 5.0 U	< 50 U	< 10 U
Benzene	1	µg/L	< 1.0 U	< 1.0 U	< 0.41 U	< 1.0 U	< 1.0 U	< 1 U	< 1.0 U	< 2.0 U	< 0.82 U	< 1.0 U	< 1 U	< 1.0 U
Bromobenzene	NSL	µg/L	NA	< 1.0 U	< 0.80 U	NA	NA	NA	NA	< 2.0 U	< 1.6 U	NA	NA	NA
Bromochloromethane	5	µg/L	NA	< 1.0 U	< 0.87 U	NA	NA	< 1 U	NA	< 2.0 U	< 1.7 U	NA	< 1 U	NA
Bromodichloromethane	50	µg/L	< 1.0 U	< 1.0 U	< 0.39 U	< 1.0 U	< 1.0 U	< 0.5 U	< 1.0 U	< 2.0 U	< 0.78 U	< 1.0 U	< 0.5 U	< 1.0 U
Bromoform	50	µg/L	< 1.0 U	< 1.0 U	< 0.26 U	< 1.0 U	< 1.0 U	< 1 U	< 1.0 U	< 2.0 U	< 0.52 U	< 1.0 U	< 1 U	< 1.0 U

Notes:

(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).

µg/L = Microgram(s) per liter

J = Concentration is estimated

J+ = Concentration is estimated, biased high

NA = Not analyzed

ng/L = Nanogram(s) per liter

NSL - No screening level available

U = Analyte not detected

Concentrations exceeding the screening level are shaded gray

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			MW-8S 1/10/2012 MW-8S	MW-8S 10/15/2015 MW-8S-20151015	MW-8S 3/17/2017 MW-8S 031717	MW-8S 5/16/2019 MW-8S 051619-20190516	MW-8S 5/16/2019 DUP 051619-20190516 MW-8S 051619-20190516	MW-8S 5/23/2023 518014-MW-8S	VEW-1 1/10/2012 VEW-1	VEW-1 10/13/2015 VEW-1	VEW-1 3/16/2017 VEW-1 031617	VEW-1 5/14/2019 VEW-1 051419-20190514	VEW-1 5/23/2023 518014-VEW-1	VEW-2 1/10/2012 VEW-2
Analyte	NYSDEC AWQS ¹	Unit												
Bromomethane	5	µg/L	< 1.0 U	< 1.0 U	< 0.69 U	< 1.0 U	< 1.0 U	< 2 U	< 1.0 U	< 2.0 U	< 1.4 U	< 1.0 U	< 2 U	< 1.0 U
Carbon Disulfide	60	µg/L	< 1.0 U	< 1.0 U	< 0.19 U	< 1.0 U	< 1.0 U	< 5 U	< 1.0 U	< 2.0 U	< 0.38 U	0.25 J	< 5 U	< 1.0 U
Carbon Tetrachloride	5	µg/L	< 1.0 U	< 1.0 U	< 0.27 U	< 1.0 U	< 1.0 U	< 5 U	< 1.0 U	< 2.0 U	< 0.54 U	< 1.0 U	< 5 U	< 1.0 U
Chlorobenzene	5	µg/L	< 1.0 U	< 1.0 U	< 0.75 U	< 1.0 U	< 1.0 U	< 1 U	< 1.0 U	< 2.0 U	< 1.5 U	< 1.0 U	< 1 U	< 1.0 U
Chloroethane	5	µg/L	< 1.0 U	< 1.0 U	< 0.32 U	< 1.0 U	< 1.0 U	< 2 U	< 1.0 U	< 2.0 U	< 0.64 U	< 1.0 U	< 2 U	< 1.0 U
Chloroform	7	µg/L	< 1.0 U	< 1.0 U	< 0.34 U	< 1.0 U	< 1.0 U	< 2 U	< 1.0 U	< 2.0 U	< 0.68 U	< 1.0 U	< 2 U	< 1.0 U
Chloromethane (Methyl Chloride)	NSL	µg/L	< 1.0 U	< 1.0 U	< 0.35 U	< 1.0 U	< 1.0 U	< 2 U	< 1.0 U	< 2.0 U	< 0.70 U	< 1.0 U	< 2 U	< 1.0 U
Cis-1,2-Dichloroethylene	5	µg/L	< 1.0 U	< 1.0 U	< 0.81 U	< 1.0 U	< 1.0 U	< 1 U	22	19	< 1.6 U	7.7	< 1 U	< 1.0 U
Cis-1,3-Dichloropropene	0.4	µg/L	< 1.0 U	< 1.0 U	< 0.36 U	< 1.0 U	< 1.0 U	< 0.5 U	< 1.0 U	< 2.0 U	< 0.72 U	< 1.0 U	< 0.5 U	< 1.0 U
Cyclohexane	NSL	µg/L	< 1.0 U	< 1.0 U	< 0.18 U	< 1.0 U	< 1.0 U	< 5 U	0.47 J	< 2.0 U	< 0.36 U	< 1.0 U	< 5 U	< 1.0 U
Cymene	NSL	µg/L	NA	0.80 J	< 0.31 U	< 1.0 U	< 1.0 U	NA	NA	45	10	40	NA	NA
Dibromochloromethane	50	µg/L	< 1.0 U	< 1.0 U	< 0.32 U	< 1.0 U	< 1.0 U	< 0.5 U	< 1.0 U	< 2.0 U	< 0.64 U	< 1.0 U	< 0.5 U	< 1.0 U
Dibromomethane	5	µg/L	NA	< 1.0 U	< 0.41 U	NA	NA	NA	NA	< 2.0 U	< 0.82 U	NA	NA	NA
Dichlorodifluoromethane	5	µg/L	< 1.0 U	< 1.0 U	< 0.68 U	< 1.0 U	< 1.0 U	< 2 U	< 1.0 U	< 2.0 U	< 1.4 U	< 1.0 U	< 2 U	< 1.0 U
Ethylbenzene	5	µg/L	< 1.0 U	1.1	< 0.74 U	< 1.0 U	< 1.0 U	< 1 U	25	28	3.6	15	2.1	< 1.0 U
Hexachlorobutadiene	0.5	µg/L	NA	< 1.0 U	< 0.28 U	NA	NA	NA	NA	< 2.0 U	< 0.56 U	NA	NA	NA
Iodomethane (Methyl Iodide)	NSL	µg/L	NA	< 1.0 U	< 0.30 U	NA	NA	NA	NA	< 2.0 U	< 0.60 U	NA	NA	NA
Isopropylbenzene (Cumene)	5	µg/L	< 1.0 U	< 1.0 U	< 0.79 U	< 1.0 U	< 1.0 U	< 1 U	13	12	2.1	11	0.75 J	< 1.0 U
Methyl Acetate	NSL	µg/L	< 1.0 U	< 2.5 U	< 1.3 U	< 5.0 U	< 5.0 U	< 1 U	< 1.0 U	< 5.0 U	< 2.6 U	< 5.0 U	< 1 U	< 1.0 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	< 1.0 U	< 1.0 U	< 1.3 U	< 5.0 U	< 5.0 U	< 20 U	2.5 J	15 J	< 2.6 U	< 5.0 U	< 20 U	< 10 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 5.0 U	< 5.0 U	< 2.1 U	< 5.0 U	< 5.0 U	< 10 U	< 5.0 U	< 10 U	< 4.2 U	< 5.0 U	< 10 U	< 5.0 U
Methylcyclohexane	NSL	µg/L	< 1.0 U	< 1.0 U	< 0.16 U	< 1.0 U	< 1.0 U	< 1 U	3.4	1.8 J	0.51 J	2.6	0.25 J	< 1.0 U
Methylene Chloride	5	µg/L	< 1.0 U	< 1.0 U	< 0.44 U	< 1.0 U	< 1.0 U	< 5 U	< 1.0 U	< 2.0 U	< 0.88 U	< 1.0 U	< 5 U	< 1.0 U
M-P-Xylene	NSL	µg/L	< 2.0 U	0.80 J	< 0.66 U	< 1.0 U	< 1.0 U	NA	47	58	7.7	33	NA	< 2.0 U
Naphthalene	10	µg/L	NA	< 1.0 U	< 0.43 U	< 1.0 U	< 1.0 U	NA	NA	110	17	77	NA	NA
N-Butylbenzene	5	µg/L	NA	< 1.0 U	< 0.64 U	< 1.0 U	< 1.0 U	NA	NA	62	14	21	NA	NA
N-Propylbenzene	NSL	µg/L	NA	< 1.0 U	< 0.69 U	< 1.0 U	< 1.0 U	NA	NA	18	3.5	19	NA	NA
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	< 1.0 U	3	< 0.76 U	< 1.0 U	< 1.0 U	NA	180	200	33	140	NA	< 1.0 U
Sec-Butylbenzene	5	µg/L	NA	0.92 J	< 0.75 U	< 1.0 U	< 1.0 U	NA	NA	19	4.5	19	NA	NA
Styrene	5	µg/L	< 1.0 U	< 1.0 U	< 0.73 U	< 1.0 U	< 1.0 U	< 1 U	< 1.0 U	< 2.0 U	< 1.5 U	< 1.0 U	< 1 U	< 1.0 U
T-Butylbenzene	5	µg/L	NA	< 1.0 U	< 0.81 U	< 1.0 U	< 1.0 U	NA	NA	4.6	< 1.6 U	4.7	NA	NA
Tert-Butyl Methyl Ether	10	µg/L	< 1.0 U	< 1.0 U	< 0.16 U	< 1.0 U	< 1.0 U	< 1 U	< 1.0 U	< 2.0 U	< 0.32 U	< 1.0 U	< 1 U	< 1.0 U
Tetrachloroethylene (PCE)	5	µg/L	< 1.0 U	< 1.0 U	< 0.36 U	< 1.0 U	< 1.0 U	< 1 U	0.99 J	< 2.0 U	< 0.72 U	1.1	0.44 J	< 1.0 U
Toluene	5	µg/L	< 1.0 U	< 1.0 U	< 0.51 U	< 1.0 U	< 1.0 U	< 1 U	1.6	2	< 1.0 U	1.2	0.35 J	< 1.0 U
Trans-1,2-Dichloroethene	5	µg/L	< 1.0 U	< 1.0 U	< 0.90 U	< 1.0 U	< 1.0 U	< 1 U	< 1.0 U	< 2.0 U	< 1.8 U	< 1.0 U	< 1 U	< 1.0 U
Trans-1,3-Dichloropropene	0.4	µg/L	< 1.0 U	< 1.0 U	< 0.37 U	< 1.0 U	< 1.0 U	< 0.5 U	< 1.0 U	< 2.0 U	< 0.74 U	< 1.0 U	< 0.5 U	< 1.0 U
Trichloroethylene (TCE)	5	µg/L	< 1.0 U	< 1.0 U	< 0.46 U	< 1.0 U	< 1.0 U	< 1 U	1.6	< 2.0 U	2.1	2.4	1.8	0.88 J
Trichlorofluoromethane	5	µg/L	< 1.0 U	< 1.0 U	< 0.88 U	< 1.0 U	< 1.0 U	< 2 U	< 1.0 U	< 2.0 U	< 1.8 U	< 1.0 U	< 2 U	< 1.0 U
Vinyl Acetate	NSL	µg/L	NA	< 5.0 U	< 0.85 U	NA	NA	NA	NA	< 10 U	< 1.7 U	NA	NA	NA
Vinyl Chloride	2	µg/L	< 1.0 U	< 1.0 U	< 0.90 U	< 1.0 U	< 1.0 U	< 2 U	< 1.0 U	< 2.0 U	< 1.8 U	< 1.0 U	< 2 U	< 1.0 U
Xylenes	5	µg/L	< 2.0 U	3.8	< 0.66 U	< 2.0 U	< 2.0 U	< 1 U	230	260	41	170	24	< 2.0 U
Pesticides (SW8081)														
Alachlor	NSL	µg/L	NA	NA	NA	NA	NA	< 0.19 U	NA	NA	NA	NA	< 0.18 U	NA
Aldrin	NSL	µg/L	< 0.24 U	< 0.056 U	< 0.0081 U	< 0.020 U	< 0.020 U	< 0.048 U	< 2.4 U	< 1.0 U	< 0.041 U	< 0.020 U	< 0.045 U	< 0.24 U
Alpha Bhe (Alpha Hexachlorocyclohexane)	NSL	µg/L	< 0.24 U	< 0.056 U	< 0.0077 U	< 0.020 U	< 0.020 U	< 0.048 U	< 2.4 U	0.29 J	< 0.039 U	< 0.020 U	< 0.045 U	< 0.24 U
Alpha Endosulfan	NSL	µg/L	< 0.24 U	< 0.056 U	< 0.011 U	< 0.020 U	< 0.020 U	< 0.048 U	< 2.4 U	< 1.0 U	< 0.055 U	< 0.020 U	< 0.045 U	< 0.24 U
Beta Bhe (Beta Hexachlorocyclohexane)	NSL	µg/L	< 0.24 U	< 0.056 U	< 0.025 U	< 0.020 U	< 0.020 U	< 0.048 U	< 2.4 U	< 1.0 U	< 0.12 U	< 0.020 U	< 0.045 U	< 0.24 U
Beta Endosulfan	NSL	µg/L	< 0.24 U	< 0.056 U	< 0.012 U	< 0.020 U	< 0.020 U	< 0.076 U	< 2.4 U	< 1.0 U	< 0.060 U	< 0.020 U	< 0.072 U	< 0.24 U
Chlordane	0.05	µg/L	NA	NA	NA	NA	NA	< 0.19 U	NA	NA	NA	NA	< 0.18 U	NA
Chlordane (Technical)	NSL	µg/L	< 0.24 U	NA	NA	NA	NA	NA	< 2.4 U	NA	NA	NA	NA	< 0.24 U
cis-Chlordane	NSL	µg/L	< 0.24 U	< 0.056 U	< 0.015 U	< 0.020 U	< 0.020 U	NA	< 2.4 U	< 1.0 U	< 0.074 U	< 0.020 U	NA	< 0.24 U
Delta BHC (Delta Hexachlorocyclohexane)	NSL	µg/L	< 0.24 U	< 0.056 U	< 0.010 U	< 0.020 U	< 0.020 U	< 0.048 U	< 2.4 U	0.33 J	< 0.050 U	< 0.020 U	< 0.045 U	< 0.24 U
Dieldrin	0.004	µg/L	< 0.24 U	< 0.056 U	< 0.0098 U	< 0.020 U	< 0.020 U	< 0.0019 U	< 2.4 U	< 1.0 U	< 0.049 U	< 0.020 U	< 0.0018 U	< 0.24 U
Endosulfan Sulfate	NSL	µg/L	< 0.24 U	< 0.056 U	< 0.016 U	< 0.020 U	< 0.020 U	< 0.076 U	< 2.4 U	< 1.0 U	< 0.079 U	< 0.020 U	< 0.072 U	< 0.24 U
Endrin	NSL	µg/L	< 0.24 U	< 0.056 U	< 0.014 U	< 0.020 U	< 0.020 U	< 0.076 U	< 2.4 U	< 1.0 U	< 0.069 U	< 0.020 U	< 0.072 U	< 0.24 U
Endrin Aldehyde	5	µg/L	< 0.24 U	< 0.056 U	< 0.016 U	< 0.020 U	< 0.020 U	< 0.076 U	< 2.4 U	< 1.0 U	< 0.082 U	< 0.020 U	< 0.072 U	< 0.24 U
Endrin Ketone	5	µg/L	< 0.24 U	< 0.056 U	< 0.012 U	< 0.020 U	< 0.020 U	< 0.076 U	< 2.4 U	< 1.0 U	< 0.060 U	< 0.020 U	< 0.072 U	< 0.24 U
Gamma Bhe (Lindane)	NSL	µg/L	< 0.24 U	< 0.056 U	< 0.0080 U	< 0.020 U	< 0.020 U	< 0.029 U	< 2.4 U	< 1.0 U	< 0.040 U	< 0.020 U	< 0.027 U	< 0.24 U
Heptachlor	0.04	µg/L	< 0.24 U	< 0.056 U	< 0.0085 U	< 0.020 U	< 0.020 U	< 0.048 U	< 2.4 U	< 1.0 U	< 0.043 U	< 0.020 U	< 0.045 U	< 0.24 U
Heptachlor Epoxide	0.03	µg/L	< 0.24 U	< 0.056 U	< 0.0074 U	< 0.020 U	< 0.020 U	< 0.048 U	< 2.4 U	< 1.0 U	< 0.037 U	< 0.020 U	< 0.045 U	< 0.24 U
Hexachlorobenzene	0.04	µg/L	NA	NA	NA	NA	NA	< 0.048 U	NA	NA	NA	NA	< 0.045 U	NA
Methoxychlor	35	µg/L	< 0.24 U	< 0.056 U	< 0.014 U	< 0.020 U	< 0.020 U	< 0.48 U	< 2.4 U	< 1.0 U	< 0.071 U	< 0.020 U	< 0.45 U	< 0.24 U
P,P'-DDD	0.3	µg/L	< 0.24 U	< 0.056 U	< 0.0092 U	< 0.020 U	< 0.020 U	< 0.038 U	< 2.4 U	< 1.0 U	< 0.046 U	< 0.020 U	< 0.036 U	< 0.24 U
P,P'-DDE	0.2	µg/L	< 0.24 U	< 0.056 U	< 0.012 U	< 0.020 U	< 0.020 U	< 0.038 U	< 2.4 U	< 1.0 U	< 0.058 U	< 0.020 U	< 0.036 U	< 0.24 U
P,P'-DDT	0.2	µg/L	< 0.24 U	< 0.056 U	< 0.011 U	< 0.020 U	< 0.020 U	< 0.038 U	< 2.4 U	< 1.0 U	< 0.055 U	< 0.020 U	< 0.036 U	< 0.24 U
Toxaphene	0.06	µg/L	< 2.4 U	< 0.56 U	< 0.12 U	< 0.50 U	< 0.50 U	< 0.95 U	< 24 U	< 10 U	< 0.60 U	< 0.50 U	< 0.9 U	< 2.4 U
trans-Chlordane	NSL	µg/L	NA	< 0.056 U	< 0.011 U	< 0.020 U	< 0.020 U	NA	NA	< 1.0 U	< 0.055 U	< 0.020 U	NA	NA

Notes:

(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).

µg/L = Microgram(s) per liter

J = Concentration is estimated

J+ = Concentration is estimated, biased high

NA = Not analyzed

ng/L = Nanogram(s) per liter

NSL - No screening level available

U = Analyte not detected

Concentrations exceeding the screening level are shaded gray

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			MW-8S 10/15/2015 MW-8S	MW-8S 3/17/2017 MW-8S 031717	MW-8S 5/16/2019 MW-8S 051619-20190516	MW-8S 5/16/2019 DUP 051619-20190516 MW-8S 051619-20190516	MW-8S 5/23/2023 518014-MW-8S	VEW-1 1/10/2012 VEW-1	VEW-1 10/13/2015 VEW-1	VEW-1 3/16/2017 VEW-1 031617	VEW-1 5/14/2019 VEW-1 051419-20190514	VEW-1 5/23/2023 518014-VEW-1	VEW-2 1/10/2012 VEW-2
Analyte	NYSDEC AWQS ¹	Unit											
SVOCs (SW8270)													
1,2,4,5-Tetrachlorobenzene	NSL	µg/L	NA	NA	NA	NA	< 9.1 U	NA	NA	NA	NA	< 9.2 U	NA
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	< 0.20 U	< 0.40 U	< 0.19 U	NA	NA	< 0.20 U	NA	0.35	NA
2,4,5-Trichlorophenol	NSL	µg/L	< 4.7 U	< 520 U	< 0.48 U	< 10 U	< 9.1 U	< 4.7 U	< 49 U	< 0.48 U	< 10 U	< 9.2 U	< 4.7 U
2,4,6-Trichlorophenol	NSL	µg/L	< 4.7 U	< 520 U	< 0.61 U	< 10 U	< 9.1 U	< 4.7 U	< 49 U	< 0.61 U	< 10 U	< 9.2 U	< 4.7 U
2,4-Dichlorophenol	5	µg/L	< 4.7 U	< 520 U	< 0.51 U	< 10 U	< 9.1 U	< 4.7 U	< 49 U	< 0.51 U	< 10 U	< 9.2 U	< 4.7 U
2,4-Dimethylphenol	50	µg/L	< 4.7 U	< 520 U	< 0.50 U	< 10 U	< 9.1 U	< 4.7 U	9.3 J	< 0.50 U	< 10 U	< 9.2 U	< 4.7 U
2,4-Dinitrophenol	10	µg/L	< 9.4 U	< 1000 U	< 2.2 U	< 20 U	< 9.1 UJ	< 9.4 U	< 98 U	< 2.2 U	< 20 U	< 18 UJ	< 9.4 U
2,4-Dinitrotoluene	5	µg/L	< 4.7 U	< 520 U	< 0.45 U	< 2.0 U	< 9.1 U	< 4.7 U	< 49 U	< 0.45 U	< 2.0 U	< 9.2 U	< 4.7 U
2,6-Dinitrotoluene	5	µg/L	< 4.7 U	< 520 U	< 0.40 U	< 2.0 U	< 9.1 U	< 4.7 U	< 49 U	< 0.40 U	< 2.0 U	< 9.2 U	< 4.7 U
2-Chloronaphthalene	10	µg/L	< 4.7 U	< 520 U	< 0.46 U	< 10 U	< 9.1 U	< 4.7 U	< 49 U	< 0.46 U	< 10 U	< 9.2 U	< 4.7 U
2-Chlorophenol	1	µg/L	< 4.7 U	< 520 U	< 0.53 U	< 10 U	< 9.1 U	< 4.7 U	< 49 U	< 0.53 U	< 10 U	< 9.2 U	< 4.7 U
2-Methylnaphthalene	NSL	µg/L	< 4.7 U	< 520 U	< 0.60 U	< 10 U	< 4.5 U	15	< 49 U	< 0.60 U	< 10 U	< 4.6 U	< 4.7 U
2-Methylphenol (O-Cresol)	NSL	µg/L	< 4.7 U	< 520 U	< 0.40 U	< 10 U	< 9.1 U	< 4.7 U	< 49 U	< 0.40 U	< 10 U	< 9.2 U	< 4.7 U
2-Nitroaniline	5	µg/L	< 9.4 U	< 1000 U	< 0.42 U	< 10 U	< 9.1 U	< 9.4 U	< 98 U	< 0.42 U	< 10 U	< 9.2 U	< 9.4 U
2-Nitrophenol	NSL	µg/L	< 4.7 U	< 520 U	< 0.48 U	< 10 U	< 9.1 U	< 4.7 U	< 49 U	< 0.48 U	< 10 U	< 9.2 U	< 4.7 U
3- And 4- Methylphenol (Total)	NSL	µg/L	NA	NA	NA	NA	< 9.1 U	NA	NA	NA	NA	< 9.2 U	NA
3,3'-Dichlorobenzidine	5	µg/L	< 4.7 U	< 520 U	< 0.40 U	< 10 U	< 9.1 U	< 4.7 U	< 49 U	< 0.40 U	< 10 U	< 9.2 U	< 4.7 U
3-Nitroaniline	5	µg/L	< 9.4 U	< 1000 U	< 0.48 U	< 10 U	< 9.1 U	< 9.4 U	< 98 U	< 0.48 U	< 10 U	< 9.2 UJ	< 9.4 U
4,6-Dinitro-2-Methylphenol	NSL	µg/L	< 9.4 U	< 1000 U	< 2.2 U	< 20 U	< 18 UJ	< 9.4 U	< 98 U	< 2.2 U	< 20 U	< 18 UJ	< 9.4 U
4-Bromophenyl Phenyl Ether	NSL	µg/L	< 4.7 U	< 520 U	< 0.45 U	< 10 U	< 9.1 U	< 4.7 U	< 49 U	< 0.45 U	< 10 U	< 9.2 U	< 4.7 U
4-Chloro-3-Methylphenol	NSL	µg/L	< 4.7 U	< 520 U	< 0.45 U	< 10 U	< 9.1 U	< 4.7 U	< 49 U	< 0.45 U	< 10 U	< 9.2 U	< 4.7 U
4-Chloroaniline	5	µg/L	< 4.7 U	< 520 U	< 0.59 U	< 10 U	< 9.1 U	< 4.7 U	< 49 U	< 0.59 U	< 10 U	< 9.2 U	< 4.7 U
4-Chlorophenyl Phenyl Ether	NSL	µg/L	< 4.7 U	< 520 U	< 0.35 U	< 10 U	< 9.1 U	< 4.7 U	< 49 U	< 0.35 U	< 10 U	< 9.2 U	< 4.7 U
4-Methylphenol (P-Cresol)	NSL	µg/L	< 9.4 U	< 1000 U	< 0.36 U	< 10 U	< 10 U	NA	95	12 J	0.45 J	< 10 U	NA
4-Nitroaniline	5	µg/L	< 9.4 U	< 1000 U	< 0.25 U	< 10 U	< 9.1 U	< 9.4 U	< 98 U	< 0.25 U	< 10 U	< 9.2 UJ	< 9.4 U
4-Nitrophenol	NSL	µg/L	< 9.4 U	< 1000 U	< 1.5 U	< 20 U	< 9.1 U	< 9.4 U	< 98 U	< 1.5 U	< 20 U	< 18 U	< 9.4 U
Acenaphthene	20	µg/L	< 4.7 U	< 520 U	< 0.41 U	< 10 U	< 10 U	< 4.5 U	< 4.7 U	< 49 U	< 0.41 U	< 10 U	< 4.6 U
Acenaphthylene	NSL	µg/L	< 4.7 U	< 520 U	< 0.38 U	< 10 U	< 10 U	< 4.5 U	< 4.7 U	< 49 U	< 0.38 U	< 10 U	< 4.6 U
Acetophenone	NSL	µg/L	< 4.7 U	< 520 U	< 0.54 U	< 10 U	< 10 U	< 9.1 U	180	< 49 U	< 0.54 U	< 10 U	< 9.2 U
Anthracene	50	µg/L	< 4.7 U	< 520 U	< 0.28 U	< 10 U	< 10 U	< 4.5 U	< 4.7 U	< 49 U	< 0.28 U	< 10 U	< 4.6 U
Atrazine	NSL	µg/L	< 4.7 U	< 520 U	< 0.46 U	< 2.0 U	< 18 U	< 4.7 U	< 49 U	< 0.46 U	< 2.0 U	< 18 U	< 4.7 U
Benzaldehyde	NSL	µg/L	< 4.7 U	< 520 U	< 0.27 U	< 10 U	< 10 U	< 9.1 UJ	< 4.7 U	< 49 U	< 0.27 U	< 10 U	< 9.2 UJ
Benzo(A)Anthracene	0.002	µg/L	< 4.7 U	< 520 U	< 0.36 U	< 1.0 U	< 1.0 U	< 4.5 U	< 4.7 U	< 49 U	< 0.36 U	< 1.0 U	< 4.6 U
Benzo(A)Pyrene	NSL	µg/L	< 4.7 U	< 520 U	< 0.47 U	< 1.0 U	< 1.0 U	< 4.5 U	< 4.7 U	< 49 U	< 0.47 U	< 1.0 U	< 4.6 U
Benzo(B)Fluoranthene	0.002	µg/L	< 4.7 U	< 520 U	< 0.34 U	< 2.0 U	< 4.5 U	< 4.7 U	< 49 U	< 0.34 U	< 2.0 U	< 4.6 U	< 4.7 U
Benzo(G,H,I)Perylene	NSL	µg/L	< 4.7 U	< 520 U	< 0.35 U	< 10 U	< 10 U	< 4.5 U	< 4.7 U	< 49 U	< 0.35 U	< 10 U	< 4.6 U
Benzo(K)Fluoranthene	0.002	µg/L	< 4.7 U	< 520 U	< 0.73 U	< 1.0 U	< 1.0 U	< 4.5 U	< 4.7 U	< 49 U	< 0.73 U	< 1.0 U	< 4.6 U
Benzyl Butyl Phthalate	50	µg/L	< 4.7 U	< 520 U	< 1.0 U	< 10 U	< 10 U	< 9.1 UJ	< 4.7 U	< 49 U	< 1.0 U	< 10 U	< 9.2 UJ
Biphenyl (Diphenyl or 1,1'-Biphenyl)	5	µg/L	< 4.7 U	< 520 U	< 0.65 U	< 10 U	< 18 U	< 4.7 U	< 49 U	< 0.65 U	< 10 U	< 18 U	< 4.7 U
Bis(2-Chloroethoxy) Methane	5	µg/L	< 4.7 U	< 520 U	< 0.35 U	< 10 U	< 10 U	< 9.1 U	< 4.7 U	< 49 U	< 0.35 U	< 10 U	< 9.2 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	µg/L	< 4.7 U	< 520 U	< 0.40 U	< 1.0 U	< 1.0 U	< 9.1 U	< 4.7 U	< 49 U	< 0.40 U	< 1.0 U	< 9.2 U
Bis(2-Chloroisopropyl) Ether	5	µg/L	< 4.7 U	< 520 U	< 0.52 U	< 10 U	< 10 U	< 9.1 U	< 4.7 U	< 49 U	< 0.52 U	< 10 U	< 9.2 U
Bis(2-Ethylhexyl) Phthalate	5	µg/L	< 4.7 U	< 520 U	< 2.2 U	< 2.0 U	< 9.1 UJ	< 4.7 U	< 49 U	< 2.2 U	< 2.0 U	< 9.2 UJ	< 4.7 U
Caprolactam	NSL	µg/L	< 4.7 U	< 520 U	< 2.2 U	< 10 U	< 10 U	< 9.1 UJ	< 4.7 U	< 49 U	< 2.2 U	< 10 U	< 9.2 UJ
Carbazole	NSL	µg/L	< 4.7 U	< 520 U	< 0.30 U	< 10 U	< 10 U	< 9.1 U	< 4.7 U	< 49 U	< 0.30 U	< 10 U	< 9.2 U
Chrysene	0.002	µg/L	< 4.7 U	< 520 U	< 0.33 U	< 2.0 U	< 2.0 U	< 4.5 U	< 4.7 U	< 49 U	< 0.33 U	< 2.0 U	< 4.6 U
Dibenz(A,H)Anthracene	NSL	µg/L	< 4.7 U	< 520 U	< 0.42 U	< 1.0 U	< 1.0 U	< 4.5 U	< 4.7 U	< 49 U	< 0.42 U	< 1.0 U	< 4.6 U
Dibenzofuran	NSL	µg/L	< 9.4 U	< 1000 U	< 0.51 U	< 10 U	< 10 U	< 4.5 U	< 9.4 U	< 98 U	< 0.51 U	< 10 U	< 4.6 U
Diethyl Phthalate	50	µg/L	< 4.7 U	< 520 U	< 0.22 U	< 10 U	< 10 U	< 9.1 U	< 4.7 U	< 49 U	< 0.22 U	< 10 U	< 9.2 U
Dimethyl Phthalate	50	µg/L	< 4.7 U	< 520 U	< 0.36 U	< 10 U	< 10 U	< 9.1 U	< 4.7 U	< 49 U	< 0.36 U	< 10 U	< 9.2 U
Di-N-Butyl Phthalate	50	µg/L	< 4.7 U	< 520 U	< 0.31 U	< 10 U	< 10 U	< 9.1 U	10	7.1 J	3.6 J	3.9 J	0.72 J
Di-N-Octylphthalate	50	µg/L	< 4.7 U	< 520 U	< 0.47 U	< 10 U	< 10 U	< 9.1 UJ	< 4.7 U	< 49 U	< 0.47 U	< 10 U	< 9.2 UJ
Fluoranthene	50	µg/L	< 4.7 U	< 520 U	< 0.40 U	< 10 U	< 10 U	< 4.5 U	< 4.7 U	< 49 U	< 0.40 U	< 10 U	< 4.6 U
Fluorene	50	µg/L	< 4.7 U	< 520 U	< 0.36 U	< 10 U	< 10 U	< 4.5 U	< 4.7 U	< 49 U	< 0.36 U	< 10 U	< 4.6 U
Hexachlorobenzene	0.04	µg/L	< 4.7 U	< 520 U	< 0.51 U	< 1.0 U	< 1.0 U	< 9.1 U	< 4.7 U	< 49 U	< 0.51 U	< 1.0 U	< 9.2 U
Hexachlorobutadiene	0.5	µg/L	< 4.7 U	< 520 U	< 0.68 U	< 1.0 U	< 1.0 U	< 9.1 U	< 4.7 U	< 49 U	< 0.68 U	< 1.0 U	< 9.2 U
Hexachlorocyclopentadiene	5	µg/L	< 4.7 U	< 520 U	< 0.59 U	< 10 U	< 10 U	< 9.1 U	< 4.7 U	< 49 U	< 0.59 U	< 10 U	< 9.2 U
Hexachloroethane	5	µg/L	< 4.7 U	< 520 U	< 0.59 U	< 2.0 U	< 2.0 U	< 9.1 UJ	< 4.7 U	< 49 U	< 0.59 U	< 2.0 U	< 9.2 UJ
Indeno(1,2,3-C,D)Pyrene	0.002	µg/L	< 4.7 U	< 520 U	< 0.47 U	< 2.0 U	< 2.0 U	< 4.5 U	< 4.7 U	< 49 U	< 0.47 U	< 2.0 U	< 4.6 U
Isophorone	50	µg/L	< 4.7 U	< 520 U	< 0.43 U	< 10 U	< 10 U	< 9.1 U	< 4.7 U	< 49 U	< 0.43 U	< 10 U	< 9.2 U
Naphthalene	10	µg/L	< 4.7 U	< 520 U	< 0.76 U	< 10 U	< 10						

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID Sample Date Sample Name Parent Sample ID			VEW-2 10/13/2015 VEW-2	VEW-2 3/16/2017 VEW-2 031617	VEW-2 3/16/2017 DUP-01 031617 VEW-2 031617	VEW-2 5/14/2019 VEW-2 051419-20190514	VEW-2 5/23/2023 518014-VEW-2	VEW-3 1/10/2012 VEW-3	VEW-3 3/16/2017 VEW-3 031617	VEW-3 5/14/2019 VEW-3 051419-20190514	VEW-3 5/23/2023 518014-VEW-3	VEW-4 1/10/2012 VEW-4	VEW-4 3/16/2017 VEW-4 031617	VEW-4 5/14/2019 VEW-4 051419-20190514	VEW-4 5/23/2023 518014-VEW-4
Analyte	NYSDEC AWQS ¹	Unit													
PFAS (E537/E1633)															
11-Chloroisosaluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NSL	ng/L	NA	NA	NA	NA	< 3.6 U	NA	NA	NA	< 3.7 U	NA	NA	NA	< 3.7 U
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	< 85 U	< 3.6 U	NA	NA	< 86 U	< 3.7 U	NA	NA	< 82 U
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	NA	< 3.6 U	NA	NA	NA	< 3.7 U	NA	NA	NA
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	NA	NA	NA	NA	< 85 U	< 3.6 U	NA	NA	< 86 U	< 3.7 U	NA	NA	< 82 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	< 45 U	NA	NA	NA	< 46 U	NA	NA	NA
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	< 45 U	NA	NA	NA	< 46 U	NA	NA	NA
3-Perfluoropropyl propanoic acid (3:3 FTCA)	NSL	ng/L	NA	NA	NA	NA	NA	< 9.1 U	NA	NA	NA	< 9.2 U	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	NA	NA	NA	NA	NA	< 3.6 U	NA	NA	NA	< 3.7 U	NA	NA	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	NSL	ng/L	NA	NA	NA	NA	NA	< 3.6 U	NA	NA	NA	< 3.7 U	NA	NA	NA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	NA	NA	NA	NA	NA	< 3.6 U	NA	NA	NA	< 3.7 U	NA	NA	NA
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NSL	ng/L	NA	NA	NA	NA	NA	< 0.91 U	NA	NA	NA	< 0.92 U	NA	NA	NA
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NSL	ng/L	NA	NA	NA	23 J	< 0.91 U	NA	NA	< 86 U	5.5	NA	NA	< 82 U	29 J
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NSL	ng/L	NA	NA	NA	NA	< 9.1 U	NA	NA	NA	< 9.2 U	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamide (NMtFOSA)	NSL	ng/L	NA	NA	NA	NA	< 0.91 U	NA	NA	NA	< 0.92 U	NA	NA	NA	NA
N-methyl perfluorooctanesulfonamidoacetic acid (NMtFOSAA)	NSL	ng/L	NA	NA	NA	NA	< 85 U	< 0.91 U	NA	NA	< 86 UJ	< 0.92 U	NA	NA	< 82 UJ
N-methyl perfluorooctanesulfonamidoethanol (NMtFOSE)	NSL	ng/L	NA	NA	NA	NA	NA	< 9.1 U	NA	NA	NA	< 9.2 U	NA	NA	NA
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	< 1.8 U	NA	NA	NA
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEsA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	< 1.8 U	NA	NA	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	< 1.8 U	NA	NA	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	NSL	ng/L	NA	NA	NA	NA	NA	< 1.8 U	NA	NA	NA	< 1.8 U	NA	NA	NA
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	NA	1.6 J	1.7 J	< 8.5 U	0.67 J	NA	2	< 8.6 UJ	6.2	NA	1.1 J	< 8.2 UJ	2
Perfluorobutanoic Acid	NSL	ng/L	NA	NA	NA	< 8.5 UJ	< 3.6 U	NA	NA	< 8.6 U	8	NA	NA	< 8.2 UJ	61 R
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	NA	NA	NA	< 8.5 U	< 0.91 U	NA	NA	< 8.6 U	< 0.92 U	NA	NA	< 8.2 U	< 0.92 U
Perfluorodecanoic acid (PFDA)	NSL	ng/L	NA	NA	NA	< 8.5 U	< 0.91 U	NA	NA	< 8.6 U	0.20 J	NA	NA	< 8.2 U	0.60 J
Perfluorododecanesulfonic acid (PFDoS)	NSL	ng/L	NA	NA	NA	NA	< 0.91 U	NA	NA	NA	< 0.92 U	NA	NA	NA	< 0.92 U
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	NA	NA	NA	< 8.5 U	< 0.91 U	NA	NA	< 8.6 U	< 0.92 U	NA	NA	< 8.2 U	< 0.92 U
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	NA	NA	NA	25	< 0.91 U	NA	NA	51	65	NA	NA	21	11
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	NA	11	11	19	0.61 J	NA	11	14	19	NA	9.4	26 J	7.2
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	NA	16	16	18	0.24 J	NA	21	42 J	70	NA	12	29 J	11
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	NA	NA	NA	12	0.64 J	NA	NA	13 J	12	NA	NA	14 J	4.1
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	NA	NA	NA	NA	< 0.91 U	NA	NA	NA	< 0.92 U	NA	NA	NA	0.65 J
Perfluorononanoic acid (PFNA)	NSL	ng/L	NA	3.3	3.3	9.5	< 0.91 U	NA	4.3	5.7 J	3.8	NA	5.5	9.6	3.1
Perfluorooctane Sulfonamide (PFOSA)	NSL	ng/L	NA	NA	NA	68	< 0.91 U	NA	NA	< 8.6 U	< 0.92 U	NA	NA	< 8.2 UJ	2
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	NA	1100	1100	2100	0.95	NA	960	1900 J	1400	NA	1300	1800 J	950 J
Perfluorooctanoic acid (PFOA)	6.7	ng/L	NA	81	80	71 J	3	NA	130	180 J	200	NA	75	110 J	75
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	NA	NA	NA	NA	< 0.91 U	NA	NA	NA	10	NA	NA	NA	1.9
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	NA	NA	NA	13	0.74 J	NA	NA	3.6 J	< 1.8 U	NA	NA	22	< 1.8 U
Perfluorotetradecanoic acid (PFTeDA)	NSL	ng/L	NA	NA	NA	< 8.5 U	< 0.91 U	NA	NA	< 8.6 UJ	< 0.92 U	NA	NA	< 8.2 UJ	< 0.92 U
Perfluorotridecanoic Acid (PFTriA/PFTriDA)	NSL	ng/L	NA	NA	NA	< 8.5 U	< 0.91 U	NA	NA	< 8.6 U	< 0.92 U	NA	NA	< 8.2 U	< 0.92 U
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	NA	NA	NA	< 8.5 U	< 0.91 U	NA	NA	< 8.6 U	< 0.92 U	NA	NA	< 8.2 U	< 0.92 U
VOCs (SW8260)															
1,1,1,2-Tetrachloroethane	5	µg/L	< 1.0 U	< 0.35 U	< 0.35 U	NA	NA	NA	< 0.35 U	NA	NA	NA	< 0.35 U	NA	NA
1,1,1-Trichloroethane (TCA)	5	µg/L	< 1.0 U	< 0.82 U	< 0.82 U	< 1.0 U	< 1 U	< 1.0 U	< 0.82 U	< 1.0 U	< 1 U	< 1.0 U	< 0.82 U	< 1.0 U	< 1 U
1,1,2,2-Tetrachloroethane	5	µg/L	< 1.0 U	< 0.21 U	< 0.21 U	< 1.0 U	< 0.5 U	< 1.0 U	< 0.21 U	< 1.0 U	< 0.5 U	< 1.0 U	< 0.21 U	< 1.0 U	< 0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 1.0 U	< 0.31 U	< 0.31 U	< 1.0 U	< 1 U	< 1.0 U	< 0.31 U	< 1.0 U	< 1 U	< 1.0 U	< 0.31 U	0.53 J	< 1 U
1,1,2-Trichloroethane	1	µg/L	< 1.0 U	< 0.23 U	< 0.23 U	< 1.0 U	< 1 U	< 1.0 U	< 0.23 U	< 1.0 U	< 1 U	< 1.0 U	< 0.23 U	< 1.0 U	< 1 U
1,1-Dichloroethane	5	µg/L	< 1.0 U	< 0.38 U	< 0.38 U	< 1.0 U	< 1 U	< 1.0 U	< 0.38 U	< 1.0 U	< 1 U	< 1.0 U	< 0.38 U	< 1.0 U	< 1 U
1,1-Dichloroethene	5	µg/L	< 1.0 U	< 0.29 U	< 0.29 U	< 1.0 U	< 1 U	< 1.0 U	< 0.29 U	< 1.0 U	< 1 U	< 1.0 U	< 0.29 U	< 1.0 U	< 1 U
1,1-Dichloropropene	5	µg/L	< 1.0 U	< 0.72 U	< 0.72 U	NA	NA	NA	< 0.72 U	NA	NA	NA	< 0.72 U	NA	NA
1,2,3-Trichlorobenzene	5	µg/L	< 1.0 U	< 0.41 U	< 0.41 U	NA	< 5 U	NA	< 0.41 U	NA	< 5 U	NA	< 0.41 U	NA	< 5 U
1,2,3-Trichloropropane	0.04	µg/L	< 1.0 U	< 0.89 U	< 0.89 U	NA	NA	NA	< 0.89 U	NA	NA	NA	< 0.89 U	NA	NA
1,2,4-Trichlorobenzene	5	µg/L	< 1.0 U	< 0.41 U	< 0.41 U	< 1.0 U	< 1 U	< 1.0 U	< 0.41 U	< 1.0 U	< 1 U	< 1.0 U	< 0.41 U	< 1.0 U	< 1 U
1,2,4-Trimethylbenzene	NSL	µg/L	170	< 0.75 U	< 0.75 U	< 1.0 U	NA	NA	< 0.75 U	30	NA	NA	< 0.75 U	25	NA
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 1.0 U	< 0.39 U	< 0.39 U	< 1.0 U	< 5 U	< 1.0 U	< 0.39 U	< 1.0 U	< 5 U	< 1.0 U	< 0.39 U	< 1.0 U	< 5 U
1,2-Dibromoethane (Ethylene Dibromide)	NSL	µg/L	< 1.0 U	< 0.73 U	< 0.73 U	< 1.0 U	< 0.5 U	< 1.0 U	< 0.73 U	< 1.0 U	< 0.5 U	< 1.0 U	< 0.73 U	< 1.0 U	< 0.5 U
1,2-Dichlorobenzene	3	µg/L	18	< 0.79 U	< 0.79 U	< 1.0 U	0.78 J	3.1	< 0.79 U	6.9	4.4	3.9	< 0.79 U	1.5	2.6
1,2-Dichloroethane	0.6	µg/L	< 1.0 U	< 0.21 U	< 0.21 U	< 1.0 U	< 1 U	< 1.0 U	< 0.21 U	< 1.0 U	< 1 U	< 1.0 U	< 0.21 U	< 1.0 U	< 1 U
1,2-Dichloropropane	1	µg/L	< 1.0 U	< 0.72 U	< 0.72 U	< 1.0 U	< 1 U	< 1.0 U	< 0.72 U	< 1.0 U	< 1 U	< 1.0 U	< 0.72 U	< 1.0 U	< 1 U
1,3,5-Trimethylbenzene (Mesitylene)	NSL	µg/L	57	< 0.77 U	< 0.77 U	< 1.0 U	NA	NA	< 0.77 U	21	NA	NA	< 0.77 U	15	NA
1,3-Dichlorobenzene	3	µg/L	< 1.0 U	< 0.78 U	< 0.78 U	< 1.0 U	< 1 U	< 1.0 U	< 0.78 U	< 1.0 U	< 1 U	< 1.0 U	< 0.78 U	< 1.0 U	< 1 U
1,3-Dichloropropane	5	µg/L	< 1.0 U	< 0.75 U	< 0.75 U	NA	NA	NA	< 0.75 U	NA	NA	NA	< 0.75 U	NA	NA
1,4-Dichlorobenzene	3	µg/L	< 1.0 U	< 0.84 U	< 0.84 U	< 1.0 U	< 1 U	< 1.0 U	< 0.84 U	< 1.0 U	< 1 U	< 1.0 U	< 0.84 U	< 1.0 U	0.21 J
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	< 0.20 U	< 0.20 U	NA	NA	NA	< 0.20 U	NA	NA	NA	< 0.20 U	NA	NA
2,2-Dichloropropane	NSL	µg/L	< 1.0 U	< 0.40 U	< 0.40 U	NA	NA	NA	< 0.40 U	NA	NA	NA	< 0.40 U	NA	NA
2-Chlorotoluene	NSL	µg/L	< 1.0 U	< 0.86 U	< 0.86 U	NA	NA	NA	< 0.86 U	NA	NA	NA	< 0.86 U	NA	NA
2-Hexanone	50	µg/L	< 5.0 U	< 1.2 U	< 1.2 U	< 5.0 U	< 10 U	< 5.0 U	< 1.2 U	< 5.0 U	< 10 U	< 5.0 U	< 1.2 U	< 5.0 U	< 10 U
4-Chlorotoluene	NSL	µg/L	< 1.0 U	< 0.84 U	< 0.84 U	NA	NA	NA	< 0.84 U	NA	NA	NA	< 0.84 U	NA	NA
Acetone	50	µg/L	11	3.0 J	3.0 J	< 5.0 U	< 50 U	< 10 U	3.2 J	< 5.0 U	2.7 J	5.2 J	3.0 J	< 5.0 U	3.4 J
Benzene	1	µg/L	< 1.0 U	< 0.41 U	< 0.41 U	< 1.0 U	< 1 U	< 1.0 U	< 0.41 U	< 1.0 U	< 1 U	< 1.0 U	< 0.41 U	< 1.0 U	< 1 U
Bromobenzene	NSL	µg/L	< 1.0 U	< 0.80 U	< 0.80 U	NA	NA	NA	< 0.80 U	NA	NA	NA	< 0.80 U	NA	NA
Bromochloromethane	5	µg/L	< 1.0 U	< 0.87 U	< 0.87 U	NA	< 1 U	NA	< 0.87 U	NA	< 1 U	NA	< 0.87 U	NA	< 1 U
Bromodichloromethane	50	µg/L	< 1.0 U	< 0.39 U	< 0.39 U	< 1.0 U	< 0.5 U	< 1.0 U	< 0.39 U	< 1.0 U	< 0.5 U	< 1.0 U	< 0.39 U	< 1.0 U	< 0.5 U
Bromoform	50	µg/L	< 1.0 U	< 0.26 U	< 0.26 U	< 1.0 U	< 1 U	< 1.0 U	< 0.26 U	< 1.0 U	< 1 U	< 1.0 U	< 0.26 U	< 1.0 U	< 1 U

Notes:

(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).

µg/L = Microgram(s) per liter

J = Concentration is estimated

J+ = Concentration is estimated, biased high

NA = Not analyzed

ng/L = Nanogram(s) per liter

NSL - No screening level available

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

		Location ID	VEW-2	VEW-2	VEW-2	VEW-2	VEW-2	VEW-3	VEW-3	VEW-3	VEW-3	VEW-4	VEW-4	VEW-4	VEW-4
		Sample Date	10/13/2015	3/16/2017	5/23/2017	5/14/2019	5/23/2023	1/10/2012	3/16/2017	5/14/2019	5/23/2023	1/10/2012	3/16/2017	5/14/2019	5/23/2023
		Sample Name	VEW-2	VEW-2 031617	DUP-01 031617	VEW-2 051419-20190514	518014-VEW-2	VEW-3	VEW-3 031617	VEW-3 051419-20190514	518014-VEW-3	VEW-4	VEW-4 031617	VEW-4 051419-20190514	518014-VEW-4
		Parent Sample ID													
Analyte	NYSDEC AWQS ¹	Unit													
Bromomethane	5	µg/L	< 1.0 U	< 0.69 U	< 0.69 U	< 1.0 U	< 2 U	< 1.0 U	< 0.69 U	< 1.0 U	< 2 U	< 1.0 U	< 0.69 U	< 1.0 U	< 2 U
Carbon Disulfide	60	µg/L	< 1.0 U	< 0.19 U	< 0.19 U	< 1.0 U	< 5 U	< 1.0 U	< 0.19 U	< 1.0 U	< 5 U	< 1.0 U	< 0.19 U	0.26 J	< 5 U
Carbon Tetrachloride	5	µg/L	< 1.0 U	< 0.27 U	< 0.27 U	< 1.0 U	< 5 U	< 1.0 U	< 0.27 U	< 1.0 U	< 5 U	< 1.0 U	< 0.27 U	< 1.0 U	< 5 U
Chlorobenzene	5	µg/L	< 1.0 U	< 0.75 U	< 0.75 U	< 1.0 U	< 1 U	< 1.0 U	< 0.75 U	< 1.0 U	< 1 U	< 1.0 U	< 0.75 U	< 1.0 U	< 1 U
Chloroethane	5	µg/L	< 1.0 U	< 0.32 U	< 0.32 U	< 1.0 U	< 2 U	< 1.0 U	< 0.32 U	< 1.0 U	< 2 U	< 1.0 U	< 0.32 U	< 1.0 U	< 2 U
Chloroform	7	µg/L	< 1.0 U	< 0.34 U	< 0.34 U	< 1.0 U	< 2 U	< 1.0 U	< 0.34 U	< 1.0 U	< 2 U	< 1.0 U	< 0.34 U	< 1.0 U	< 2 U
Chloromethane (Methyl Chloride)	NSL	µg/L	< 1.0 U	< 0.35 U	< 0.35 U	< 1.0 U	< 2 U	< 1.0 U	< 0.35 U	< 1.0 U	< 2 U	< 1.0 U	< 0.35 U	< 1.0 U	< 2 U
Cis-1,2-Dichloroethylene	5	µg/L	9.9	< 0.81 U	< 0.81 U	1.6	0.28 J	< 1.0 U	< 0.81 U	0.35 J	< 1 U	2	< 0.81 U	0.67 J	0.27 J
Cis-1,3-Dichloropropene	0.4	µg/L	< 1.0 U	< 0.36 U	< 0.36 U	< 1.0 U	< 0.5 U	< 1.0 U	< 0.36 U	< 1.0 U	< 0.5 U	< 1.0 U	< 0.36 U	< 1.0 U	< 0.5 U
Cyclohexane	NSL	µg/L	1.3	< 0.18 U	< 0.18 U	< 1.0 U	< 5 U	< 1.0 U	< 0.18 U	< 1.0 U	< 5 U	< 1.0 U	< 0.18 U	< 1.0 U	< 5 U
Cymene	NSL	µg/L	3.8	< 0.31 U	< 0.31 U	< 1.0 U	NA	NA	< 0.31 U	1.3	NA	NA	< 0.31 U	2.8	NA
Dibromochloromethane	50	µg/L	< 1.0 U	< 0.32 U	< 0.32 U	< 1.0 U	< 0.5 U	< 1.0 U	< 0.32 U	< 1.0 U	< 0.5 U	< 1.0 U	< 0.32 U	< 1.0 U	< 0.5 U
Dibromomethane	5	µg/L	< 1.0 U	< 0.41 U	< 0.41 U	NA	NA	NA	< 0.41 U	NA	NA	NA	< 0.41 U	NA	NA
Dichlorodifluoromethane	5	µg/L	< 1.0 U	< 0.68 U	< 0.68 U	< 1.0 U	< 2 U	< 1.0 U	< 0.68 U	< 1.0 U	< 2 U	< 1.0 U	< 0.68 U	< 1.0 U	< 2 U
Ethylbenzene	5	µg/L	45	< 0.74 U	< 0.74 U	< 1.0 U	< 1 U	6.6	< 0.74 U	13	5.9	4.3	< 0.74 U	2.2	2.7
Hexachlorobutadiene	0.5	µg/L	< 1.0 U	< 0.28 U	< 0.28 U	NA	NA	NA	< 0.28 U	NA	NA	NA	< 0.28 U	NA	NA
Iodomethane (Methyl Iodide)	NSL	µg/L	< 1.0 U	< 0.30 U	< 0.30 U	NA	NA	NA	< 0.30 U	NA	NA	NA	< 0.30 U	NA	NA
Isopropylbenzene (Cumene)	5	µg/L	11	< 0.79 U	< 0.79 U	< 1.0 U	< 1 U	0.87 J	< 0.79 U	1.7	2	2	< 0.79 U	0.51 J	1.2
Methyl Acetate	NSL	µg/L	< 2.5 U	< 1.3 U	< 1.3 U	< 5.0 U	< 1 U	< 1.0 U	< 1.3 U	< 5.0 U	< 1 U	< 1.0 U	< 1.3 U	< 5.0 U	< 1 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	< 10 U	< 1.3 U	< 1.3 U	< 5.0 U	< 20 U	3.2 J	< 1.3 U	< 5.0 U	3.3 J	3.0 J	< 1.3 U	< 5.0 U	< 20 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 5.0 U	< 2.1 U	< 2.1 U	< 5.0 U	< 10 U	< 5.0 U	< 2.1 U	< 5.0 U	< 10 U	< 5.0 U	< 2.1 U	< 5.0 U	< 10 U
Methylcyclohexane	NSL	µg/L	0.83 J	< 0.16 U	< 0.16 U	< 1.0 U	< 1 U	< 1.0 U	< 0.16 U	< 1.0 U	0.26 J	0.81 J	< 0.16 U	< 1.0 U	< 1 U
Methylene Chloride	5	µg/L	< 1.0 U	< 0.44 U	< 0.44 U	< 1.0 U	< 5 U	< 1.0 U	< 0.44 U	< 1.0 U	< 5 U	< 1.0 U	< 0.44 U	< 1.0 U	< 5 U
M-P-Xylene	NSL	µg/L	150	< 0.66 U	< 0.66 U	< 1.0 U	NA	22	< 0.66 U	43	NA	18	< 0.66 U	8.1	NA
Naphthalene	10	µg/L	45	< 0.43 U	< 0.43 U	< 1.0 U	NA	NA	< 0.43 U	13	NA	NA	< 0.43 U	8.3	NA
N-Butylbenzene	5	µg/L	< 1.0 U	< 0.64 U	< 0.64 U	< 1.0 U	NA	NA	< 0.64 U	< 1.0 U	NA	NA	< 0.64 U	< 1.0 U	NA
N-Propylbenzene	NSL	µg/L	15	< 0.69 U	< 0.69 U	< 1.0 U	NA	NA	< 0.69 U	1.7	NA	NA	< 0.69 U	0.71 J	NA
O-Xylene (1,2-Dimethylbenzene)	5	µg/L	99	< 0.76 U	< 0.76 U	< 1.0 U	NA	16	< 0.76 U	27	NA	36	< 0.76 U	16	NA
Sec-Butylbenzene	5	µg/L	1.8	< 0.75 U	< 0.75 U	< 1.0 U	NA	NA	< 0.75 U	0.88 J	NA	NA	< 0.75 U	1.1	NA
Styrene	5	µg/L	< 1.0 U	< 0.73 U	< 0.73 U	< 1.0 U	< 1 U	< 1.0 U	< 0.73 U	< 1.0 U	< 1 U	< 1.0 U	< 0.73 U	< 1.0 U	< 1 U
T-Butylbenzene	5	µg/L	< 1.0 U	< 0.81 U	< 0.81 U	< 1.0 U	NA	NA	< 0.81 U	< 1.0 U	NA	NA	< 0.81 U	< 1.0 U	NA
Tert-Butyl Methyl Ether	10	µg/L	< 1.0 U	< 0.16 U	< 0.16 U	< 1.0 U	< 1 U	< 1.0 U	< 0.16 U	< 1.0 U	< 1 U	< 1.0 U	< 0.16 U	< 1.0 U	< 1 U
Tetrachloroethylene (PCE)	5	µg/L	< 1.0 U	< 0.36 U	< 0.36 U	< 1.0 U	0.34 J	1.4	< 0.36 U	0.58 J	0.42 J	0.45 J	< 0.36 U	0.48 J	0.25 J
Toluene	5	µg/L	17	< 0.51 U	< 0.51 U	< 1.0 U	< 1 U	3.2	< 0.51 U	2.4	1.8	1.6	< 0.51 U	1.3	0.89 J
Trans-1,2-Dichloroethene	5	µg/L	< 1.0 U	< 0.90 U	< 0.90 U	< 1.0 U	< 1 U	< 1.0 U	< 0.90 U	< 1.0 U	< 1 U	< 1.0 U	< 0.90 U	< 1.0 U	< 1 U
Trans-1,3-Dichloropropene	0.4	µg/L	< 1.0 U	< 0.37 U	< 0.37 U	< 1.0 U	< 0.5 U	< 1.0 U	< 0.37 U	< 1.0 U	< 0.5 U	< 1.0 U	< 0.37 U	< 1.0 U	< 0.5 U
Trichloroethylene (TCE)	5	µg/L	0.47 J	1.1	0.90 J	1.5	0.70 J	< 1.0 U	< 0.46 U	< 1.0 U	< 1 U	1.2	1	2.1	0.75 J
Trichlorofluoromethane	5	µg/L	< 1.0 U	< 0.88 U	< 0.88 U	< 1.0 U	< 2 U	< 1.0 U	< 0.88 U	< 1.0 U	< 2 U	< 1.0 U	< 0.88 U	< 1.0 U	< 2 U
Vinyl Acetate	NSL	µg/L	< 5.0 U	< 0.85 U	< 0.85 U	NA	NA	NA	< 0.85 U	NA	NA	NA	< 0.85 U	NA	NA
Vinyl Chloride	2	µg/L	< 1.0 U	< 0.90 U	< 0.90 U	< 1.0 U	< 2 U	< 1.0 U	< 0.90 U	< 1.0 U	< 2 U	< 1.0 U	< 0.90 U	< 1.0 U	< 2 U
Xylenes	5	µg/L	250	< 0.66 U	< 0.66 U	< 2.0 U	< 1 U	38	< 0.66 U	71	31	54	< 0.66 U	24	33
Pesticides (SW8081)															
Alachlor	NSL	µg/L	NA	NA	NA	NA	< 0.18 U	NA	NA	NA	< 0.19 U	NA	NA	NA	< 0.19 U
Aldrin	NSL	µg/L	< 0.12 U	< 0.0081 U	< 0.0081 U	< 0.020 U	< 0.045 U	< 0.24 U	< 0.0081 U	< 0.020 U	< 0.046 U	< 2.4 U	< 0.0081 U	< 0.020 U	< 0.048 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	NSL	µg/L	0.029 J	< 0.0077 U	< 0.0077 U	< 0.020 U	< 0.045 U	< 0.24 U	< 0.0077 U	< 0.020 U	< 0.046 U	< 2.4 U	< 0.0077 U	< 0.020 U	< 0.048 U
Alpha Endosulfan	NSL	µg/L	< 0.12 U	< 0.011 U	< 0.011 U	< 0.020 U	< 0.045 U	< 0.24 U	< 0.011 U	< 0.020 U	< 0.046 U	< 2.4 U	< 0.011 U	< 0.020 U	< 0.048 U
Beta Bhc (Beta Hexachlorocyclohexane)	NSL	µg/L	< 0.12 U	< 0.025 U	< 0.025 U	< 0.020 U	< 0.045 U	< 0.24 U	< 0.025 U	< 0.020 U	< 0.046 U	< 2.4 U	< 0.025 U	< 0.020 U	< 0.048 U
Beta Endosulfan	NSL	µg/L	< 0.12 U	< 0.012 U	< 0.012 U	< 0.020 U	< 0.071 U	< 0.24 U	< 0.012 U	< 0.020 U	< 0.074 U	< 2.4 U	< 0.012 U	< 0.020 U	< 0.077 U
Chlordane	0.05	µg/L	NA	NA	NA	NA	< 0.18 U	NA	NA	NA	< 0.19 U	NA	NA	NA	< 0.19 U
Chlordane (Technical)	NSL	µg/L	NA	NA	NA	NA	NA	< 0.24 U	NA	NA	NA	< 2.4 U	NA	NA	NA
cis-Chlordane	NSL	µg/L	< 0.12 U	< 0.015 U	< 0.015 U	< 0.020 U	NA	< 0.24 U	< 0.015 U	< 0.020 U	NA	< 2.4 U	< 0.015 U	< 0.020 U	NA
Delta BHC (Delta Hexachlorocyclohexane)	NSL	µg/L	0.039 J	< 0.010 U	< 0.010 U	< 0.020 U	< 0.045 U	< 0.24 U	< 0.010 U	< 0.020 U	< 0.046 U	< 2.4 U	< 0.010 U	< 0.020 U	< 0.048 U
Dieldrin	0.004	µg/L	< 0.12 U	< 0.0098 U	< 0.0098 U	< 0.020 U	< 0.0018 U	< 0.24 U	< 0.0098 U	< 0.020 U	< 0.0019 U	< 2.4 U	< 0.0098 U	< 0.020 U	< 0.0019 U
Endosulfan Sulfate	NSL	µg/L	< 0.12 U	< 0.016 U	< 0.016 U	< 0.020 U	< 0.071 U	< 0.24 U	< 0.016 U	< 0.020 U	< 0.074 U	< 2.4 U	< 0.016 U	< 0.020 U	< 0.077 U
Endrin	NSL	µg/L	< 0.12 U	< 0.014 U	< 0.014 U	< 0.020 U	< 0.071 U	< 0.24 U	< 0.014 U	< 0.020 U	< 0.074 U	< 2.4 U	< 0.014 U	< 0.020 U	< 0.077 U
Endrin Aldehyde	5	µg/L	< 0.12 U	< 0.016 U	< 0.016 U										

Table 3. Summary of Historical Groundwater Data at Korkay Inc.

Location ID		VEW-2	VEW-2	VEW-2	VEW-2	VEW-2	VEW-3	VEW-3	VEW-3	VEW-3	VEW-4	VEW-4	VEW-4	VEW-4	VEW-4
Sample Date		10/13/2015	3/16/2017	3/16/2017	5/14/2019	5/23/2023	1/10/2012	3/16/2017	5/14/2019	5/23/2023	1/10/2012	3/16/2017	5/14/2019	5/23/2023	5/23/2023
Sample Name		VEW-2	VEW-2 031617	DUP-01 031617	VEW-2 051419-20190514	518014-VEW-2	VEW-3	VEW-3 031617	VEW-3 051419-20190514	518014-VEW-3	VEW-4	VEW-4 031617	VEW-4 051419-20190514	518014-VEW-4	518014-VEW-4
Parent Sample ID		VEW-2	VEW-2 031617	VEW-2 031617	VEW-2 051419-20190514	518014-VEW-2	VEW-3	VEW-3 031617	VEW-3 051419-20190514	518014-VEW-3	VEW-4	VEW-4 031617	VEW-4 051419-20190514	518014-VEW-4	518014-VEW-4
Analyte	NYSDEC AWQS ¹	Unit													
SVOCs (SW8270)															
1,2,4,5-Tetrachlorobenzene	NSL	µg/L	NA	NA	NA	NA	<9 U	NA	NA	NA	<9.3 U	NA	NA	NA	<9.4 U
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	<0.20 U	<0.20 U	NA	<0.19 U	NA	<0.20 U	NA	<0.19 U	NA	<0.20 U	NA	0.56
2,4,5-Trichlorophenol	NSL	µg/L	0.56 J	<0.48 U	<0.48 U	<10 U	<9 U	<4.7 U	<0.48 U	<10 U	<9.3 U	<4.7 U	<0.48 U	<10 U	<9.4 U
2,4,6-Trichlorophenol	NSL	µg/L	<5.2 U	<0.61 U	<0.61 U	<10 U	<9 U	<4.7 U	<0.61 U	<10 U	<9.3 U	<4.7 U	<0.61 U	<10 U	<9.4 U
2,4-Dichlorophenol	5	µg/L	<5.2 U	<0.51 U	<0.51 U	<10 U	<9 U	<4.7 U	<0.51 U	<10 U	<9.3 U	<4.7 U	<0.51 U	<10 U	<9.4 U
2,4-Dimethylphenol	50	µg/L	9.5	<0.50 U	<0.50 U	<10 U	<9 U	<4.7 U	<0.50 U	<10 U	<9.3 U	3.7 J	<0.50 U	<10 U	<9.4 U
2,4-Dinitrophenol	10	µg/L	<10 U	<2.2 U	<2.2 U	<20 U	<18 UJ	<9.4 U	<2.2 U	<20 U	<19 UJ	<9.4 U	<2.2 U	<20 U	<19 UJ
2,4-Dinitrotoluene	5	µg/L	<5.2 U	<0.45 U	<0.45 U	<2.0 U	<9 U	<4.7 U	<0.45 U	<2.0 U	<9.3 U	<4.7 U	<0.45 U	<2.0 U	<9.4 U
2,6-Dinitrotoluene	5	µg/L	<5.2 U	<0.40 U	<0.40 U	<2.0 U	<9 U	<4.7 U	<0.40 U	<2.0 U	<9.3 U	<4.7 U	<0.40 U	<2.0 U	<9.4 U
2-Chloronaphthalene	10	µg/L	<5.2 U	<0.46 U	<0.46 U	<10 U	<9 U	<4.7 U	<0.46 U	<10 U	<9.3 U	<4.7 U	<0.46 U	<10 U	<9.4 U
2-Chlorophenol	1	µg/L	<5.2 U	<0.53 U	<0.53 U	<10 U	<9 U	<4.7 U	<0.53 U	<10 U	<9.3 U	<4.7 U	<0.53 U	<10 U	<9.4 U
2-Methylnaphthalene	NSL	µg/L	2.6 J	<0.60 U	<0.60 U	<10 U	<4.5 U	<4.7 U	<0.60 U	<10 U	<4.7 U	4.6 J	<0.60 U	<10 U	<4.7 U
2-Methylphenol (O-Cresol)	NSL	µg/L	4.2 J	<0.40 U	<0.40 U	<10 U	<9 U	<4.7 U	<0.40 U	<10 U	<9.3 U	<4.7 U	<0.40 U	<10 U	<9.4 U
2-Nitroaniline	5	µg/L	<10 U	<0.42 U	<0.42 U	<10 U	<9 U	<9.4 U	<0.42 U	<10 U	<9.3 U	<9.4 U	<0.42 U	<10 U	<9.4 U
2-Nitrophenol	NSL	µg/L	<5.2 U	<0.48 U	<0.48 U	<10 U	<9 U	<4.7 U	<0.48 U	<10 U	<9.3 U	<4.7 U	<0.48 U	<10 U	<9.4 U
3- And 4- Methylphenol (Total)	NSL	µg/L	NA	NA	NA	NA	<9 U	NA	NA	NA	<9.3 U	NA	NA	NA	1.3 J
3,3'-Dichlorobenzidine	5	µg/L	<5.2 U	<0.40 U	<0.40 U	<10 U	<9 U	<4.7 U	<0.40 U	<10 U	<9.3 U	<4.7 U	<0.40 U	<10 U	<9.4 U
3-Nitroaniline	5	µg/L	<10 U	<0.48 U	<0.48 U	<10 U	<9 UJ	<9.4 U	<0.48 U	<10 U	<9.3 UJ	<9.4 U	<0.48 U	<10 U	<9.4 UJ
4,6-Dinitro-2-Methylphenol	NSL	µg/L	<10 U	<2.2 U	<2.2 U	<20 U	<18 UJ	<9.4 U	<2.2 U	<20 U	<19 UJ	<9.4 U	<2.2 U	<20 U	<19 UJ
4-Bromophenyl Phenyl Ether	NSL	µg/L	<5.2 U	<0.45 U	<0.45 U	<10 U	<9 U	<4.7 U	<0.45 U	<10 U	<9.3 U	<4.7 U	<0.45 U	<10 U	<9.4 U
4-Chloro-3-Methylphenol	NSL	µg/L	<5.2 U	<0.45 U	<0.45 U	<10 U	<9 U	<4.7 U	<0.45 U	<10 U	<9.3 U	<4.7 U	<0.45 U	<10 U	<9.4 U
4-Chloroaniline	5	µg/L	<5.2 U	<0.59 U	<0.59 U	<10 U	<9 U	<4.7 U	<0.59 U	<10 U	<9.3 U	<4.7 U	<0.59 U	<10 U	<9.4 U
4-Chlorophenyl Phenyl Ether	NSL	µg/L	<5.2 U	<0.35 U	<0.35 U	<10 U	<9 U	<4.7 U	<0.35 U	<10 U	<9.3 U	<4.7 U	<0.35 U	<10 U	<9.4 U
4-Methylphenol (P-Cresol)	NSL	µg/L	5.3 J	<0.36 U	<0.36 U	<10 U	NA	<9.4 U	<0.36 U	<10 U	NA	8.2 J	<0.36 U	<10 U	NA
4-Nitroaniline	5	µg/L	<10 U	<0.25 U	<0.25 U	<10 U	<9 UJ	<9.4 U	<0.25 U	<10 U	<9.3 UJ	<9.4 U	<0.25 U	<10 U	<9.4 UJ
4-Nitrophenol	NSL	µg/L	<10 U	<1.5 U	<1.5 U	<20 U	<18 U	<9.4 U	<1.5 U	<20 U	<19 U	<9.4 U	<1.5 U	<20 U	<19 U
Acenaphthene	20	µg/L	<5.2 U	<0.41 U	<0.41 U	<10 U	<4.5 U	<4.7 U	<0.41 U	<10 U	<4.7 U	<4.7 U	<0.41 U	<10 U	<4.7 U
Acenaphthylene	NSL	µg/L	<5.2 U	<0.38 U	<0.38 U	<10 U	<4.5 U	<4.7 U	<0.38 U	<10 U	<4.7 U	<4.7 U	<0.38 U	<10 U	<4.7 U
Acetophenone	NSL	µg/L	<5.2 U	<0.54 U	<0.54 U	<10 U	<9 U	6.8	<0.54 U	<10 U	<9.3 U	120	<0.54 U	<10 U	<9.4 U
Anthracene	50	µg/L	<5.2 U	<0.28 U	<0.28 U	<10 U	<4.5 U	<4.7 U	<0.28 U	<10 U	<4.7 U	<4.7 U	<0.28 U	<10 U	<4.7 U
Atrazine	NSL	µg/L	<5.2 U	<0.46 U	<0.46 U	<2.0 U	<18 U	<4.7 U	<0.46 U	<2.0 U	<19 U	<4.7 U	<0.46 U	<2.0 U	<19 U
Benzaldehyde	NSL	µg/L	<5.2 U	<0.27 U	<0.27 U	<10 U	<9 UJ	<4.7 U	<0.27 U	<10 U	<9.3 UJ	<4.7 U	<0.27 U	<10 U	<9.4 UJ
Benzo(A)Anthracene	0.002	µg/L	<5.2 U	<0.36 U	<0.36 U	<1.0 U	<4.5 U	<4.7 U	<0.36 U	<1.0 U	<4.7 U	<4.7 U	<0.36 U	<1.0 U	<4.7 U
Benzo(A)Pyrene	NSL	µg/L	<5.2 U	<0.47 U	<0.47 U	<1.0 U	<4.5 U	<4.7 U	<0.47 U	<1.0 U	<4.7 U	<4.7 U	<0.47 U	<1.0 U	<4.7 U
Benzo(B)Fluoranthene	0.002	µg/L	<5.2 U	<0.34 U	<0.34 U	<2.0 U	<4.5 U	<4.7 U	<0.34 U	<2.0 U	<4.7 U	<4.7 U	<0.34 U	<2.0 U	<4.7 U
Benzo(G,H,I)Perylene	NSL	µg/L	<5.2 U	<0.35 U	<0.35 U	<10 U	<4.5 U	<4.7 U	<0.35 U	<10 U	<4.7 U	<4.7 U	<0.35 U	<10 U	<4.7 U
Benzo(K)Fluoranthene	0.002	µg/L	<5.2 U	<0.73 U	<0.73 U	<1.0 U	<4.5 U	<4.7 U	<0.73 U	<1.0 U	<4.7 U	<4.7 U	<0.73 U	<1.0 U	<4.7 U
Benzyl Butyl Phthalate	50	µg/L	0.54 J	<1.0 U	<1.0 U	<10 U	<9 UJ	<4.7 U	<1.0 U	<10 U	<9.3 UJ	<4.7 U	<1.0 U	<10 U	<9.4 UJ
Biphenyl (Diphenyl or 1,1'-Biphenyl)	5	µg/L	<5.2 U	<0.65 U	<0.65 U	<10 U	<18 U	<4.7 U	<0.65 U	<10 U	<19 U	<4.7 U	<0.65 U	<10 U	<19 U
Bis(2-Chloroethoxy) Methane	5	µg/L	<5.2 U	<0.35 U	<0.35 U	<10 U	<9 U	<4.7 U	<0.35 U	<10 U	<9.3 U	<4.7 U	<0.35 U	<10 U	<9.4 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	µg/L	<5.2 U	<0.40 U	<0.40 U	<1.0 U	<9 U	<4.7 U	<0.40 U	<1.0 U	<9.3 U	<4.7 U	<0.40 U	<1.0 U	<9.4 U
Bis(2-Chloroisopropyl) Ether	5	µg/L	<5.2 U	<0.52 U	<0.52 U	<10 U	<9 U	<4.7 U	<0.52 U	<10 U	<9.3 U	<4.7 U	<0.52 U	<10 U	<9.4 U
Bis(2-Ethylhexyl) Phthalate	5	µg/L	<5.2 U	<2.2 U	<2.2 U	<2.0 U	<9 UJ	<4.7 U	<2.2 U	<2.0 U	<9.3 UJ	<4.7 U	<2.2 U	<2.0 U	<9.4 UJ
Caprolactam	NSL	µg/L	<5.2 U	<2.2 U	<2.2 U	<10 U	<9 UJ	<4.7 U	<2.2 U	<10 U	<9.3 UJ	<4.7 U	<2.2 U	<10 U	<9.4 UJ
Carbazole	NSL	µg/L	<5.2 U	<0.30 U	<0.30 U	<10 U	<9 U	<4.7 U	<0.30 U	<10 U	<9.3 U	<4.7 U	<0.30 U	<10 U	<9.4 U
Chrysene	0.002	µg/L	<5.2 U	<0.33 U	<0.33 U	<2.0 U	<4.5 U	<4.7 U	<0.33 U	<2.0 U	<4.7 U	<4.7 U	<0.33 U	<2.0 U	<4.7 U
Dibenz(A,H)Anthracene	NSL	µg/L	<5.2 U	<0.42 U	<0.42 U	<1.0 U	<4.5 U	<4.7 U	<0.42 U	<1.0 U	<4.7 U	<4.7 U	<0.42 U	<1.0 U	<4.7 U
Dibenzofuran	NSL	µg/L	<10 U	<0.51 U	<0.51 U	<10 U	<4.5 U	<9.4 U	<0.51 U	<10 U	<4.7 U	<9.4 U	<0.51 U	<10 U	<4.7 U
Diethyl Phthalate	50	µg/L	<5.2 U	<0.22 U	<0.22 U	<10 U	<9 U	<4.7 U	<0.22 U	<10 U	<9.3 U	1.0 J	<0.22 U	<10 U	<9.4 U
Dimethyl Phthalate	50	µg/L	<5.2 U	<0.36 U	<0.36 U	<10 U	<9 U	<4.7 U	<0.36 U	<10 U	<9.3 U	<4.7 U	<0.36 U	<10 U	<9.4 U
Di-N-Butyl Phthalate	50	µg/L	0.72 J	<0.31 U	<0.31 U	<10 U	<9 U	<4.7 U	<0.31 U	<10 U	<9.3 U	1.4 J	<0.31 U	<10 U	<9.4 U
Di-N-Octylphthalate	50	µg/L	<5.2 U	<0.47 U	<0.47 U	<10 U	<9 UJ	<4.7 U	<0.47 U	<10 U	<9.3 UJ	<4.7 U	<0.47 U	<10 U	<9.4 UJ
Fluoranthene	50	µg/L	<5.2 U	<0.40 U	<0.40 U	<10 U	<4.5 U	<4.7 U	<0.40 U	<10 U	<4.7 U	<4.7 U	<0.40 U	<10 U	<4.7 U
Fluorene	50	µg/L	<5.2 U												

Table 4. Summary of Surface Water COC Concentrations (May 2023)

Location ID Sample Name Parent Sample ID Sample Date			SW-01	SW-02	SW-02	SW-03
			518014-SW-01	518014-SW-02	518014-FD-01-SW	518014-SW-03
					518014-SW-02	
			5/24/2023	5/24/2023	5/24/2023	5/24/2023
Analyte	NYSDEC AWQS ¹	Unit				
PFAS (EPA 1633)						
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NSL	ng/L	< 0.92 U	< 0.95 U	< 0.98 U	< 0.93 U
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NSL	ng/L	< 1 U	< 1.1 U	< 1.1 U	< 1 U
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NSL	ng/L	< 0.66 U	< 0.69 U	< 0.7 U	< 0.67 U
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NSL	ng/L	< 0.93 U	< 0.97 U	< 0.99 U	< 0.95 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NSL	ng/L	< 9.7 U	< 10 U	< 10 U	< 9.8 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NSL	ng/L	< 8.3 U	< 8.7 U	< 8.9 U	< 8.4 U
2H,2H,3H,3H-Perfluorooctanoic acid	NSL	ng/L	< 1.7 U	< 1.8 U	< 1.8 U	< 1.7 U
3-Perfluoroheptyl propanoic acid	NSL	ng/L	< 0.65 U	< 0.68 U	< 0.69 U	< 0.66 U
3-Perfluoropropyl propanoic acid	NSL	ng/L	< 0.81 U	< 0.84 U	< 0.86 U	< 0.82 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NSL	ng/L	< 0.99 U	< 1 U	< 1.1 U	< 1 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NSL	ng/L	< 0.29 U	< 0.3 U	< 0.31 U	< 0.3 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NSL	ng/L	< 0.21 U	< 0.22 U	< 0.22 U	< 0.21 U
N-ethyl perfluoro-1-octanesulfonamide	NSL	ng/L	< 2.3 U	< 2.4 U	< 2.5 U	< 2.3 U
N-ethyl perfluorooctanesulfonamidoacetic acid	NSL	ng/L	< 0.39 U	< 0.41 U	< 0.42 U	< 0.4 U
N-methyl perfluoro-1-octanesulfonamide	NSL	ng/L	< 0.42 U	< 0.43 U	< 0.44 U	< 0.42 U
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NSL	ng/L	< 2.5 U	< 2.6 U	< 2.6 U	< 2.5 U
Nonafluoro-3,6-dioxaheptanoic acid	NSL	ng/L	< 0.82 U	< 0.85 U	< 0.87 U	< 0.83 U
Perfluoro(2-ethoxyethane)sulfonic acid	NSL	ng/L	< 0.46 U	< 0.48 U	< 0.49 U	< 0.47 U
Perfluoro-3-methoxypropanoic acid	NSL	ng/L	< 0.47 U	< 0.49 U	< 0.5 U	< 0.48 U
Perfluoro-4-methoxybutanoic acid	NSL	ng/L	< 0.38 U	< 0.4 U	< 0.4 U	< 0.39 U
Perfluorobutanesulfonic acid (PFBS)	NSL	ng/L	0.48 J	0.33 J	0.39 J	0.41 J
Perfluorobutanoic Acid	NSL	ng/L	1.5 J	1.6 J	1.8 J	1.6 J
Perfluorodecanesulfonic acid (PFDS)	NSL	ng/L	< 0.3 U	< 0.31 U	< 0.32 U	< 0.3 U
Perfluorodecanoic acid (PFDA)	NSL	ng/L	< 0.18 U	< 0.18 U	< 0.19 U	< 0.18 U
Perfluorododecanesulfonic acid (PFDOS)	NSL	ng/L	< 0.25 U	< 0.26 U	< 0.27 U	< 0.25 U
Perfluorododecanoic acid (PFDoA)	NSL	ng/L	< 0.24 U	< 0.25 U	< 0.26 U	< 0.25 U
Perfluoroheptanesulfonic acid (PFHpS)	NSL	ng/L	< 0.29 U	< 0.3 U	< 0.31 U	< 0.29 U
Perfluoroheptanoic acid (PFHpA)	NSL	ng/L	0.28 J	< 0.25 U	0.27 J	0.32 J
Perfluorohexanesulfonic acid (PFHxS)	NSL	ng/L	0.34 J	0.38 J	0.32 J	0.35 J
Perfluorohexanoic acid (PFHxA)	NSL	ng/L	0.39 J	0.39 J	0.44 J	0.42 J
Perfluorononanesulfonic Acid (PFNS)	NSL	ng/L	< 0.28 U	< 0.29 U	< 0.3 U	< 0.28 U
Perfluorononanoic acid (PFNA)	NSL	ng/L	< 0.18 U	< 0.19 U	0.21 J	0.22 J
Perfluorooctane Sulfonamide (FOSA)	NSL	ng/L	< 0.29 U	< 0.3 U	0.35 J	0.38 J
Perfluorooctanesulfonic acid (PFOS)	2.7	ng/L	0.66 J	0.60 J	0.57 J	0.66 J
Perfluorooctanoic acid (PFOA)	6.7	ng/L	0.59 J	0.65 J	0.70 J	0.61 J
Perfluoropentanesulfonic Acid (PFPeS)	NSL	ng/L	< 0.23 U	< 0.23 U	< 0.24 U	< 0.23 U
Perfluoropentanoic Acid (PFPeA)	NSL	ng/L	0.51 J	0.58 J	0.59 J	0.49 J
Perfluorotetradecanoic acid (PFTA)	NSL	ng/L	< 0.24 U	< 0.25 U	< 0.25 U	< 0.24 U
Perfluorotridecanoic Acid (PFTriA/PFTrDA)	NSL	ng/L	< 0.26 U	< 0.27 U	< 0.27 U	< 0.26 U
Perfluoroundecanoic Acid (PFUnA)	NSL	ng/L	< 0.26 U	< 0.27 U	< 0.28 U	< 0.26 U

Table 4. Summary of Surface Water COC Concentrations (May 2023)

Location ID Sample Name Parent Sample ID Sample Date			SW-01	SW-02	SW-02	SW-03
			518014-SW-01	518014-SW-02	518014-FD-01-SW	518014-SW-03
					518014-SW-02	
			5/24/2023	5/24/2023	5/24/2023	5/24/2023
Analyte	NYSDEC AWQS ¹	Unit				
Pesticides (SW8081B)						
Alachlor	NSL	µg/L	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U
Aldrin	NSL	µg/L	< 0.0066 U	< 0.0065 U	< 0.0066 U	< 0.0065 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	NSL	µg/L	< 0.0033 U	< 0.0033 U	< 0.0033 U	< 0.0033 U
Alpha Endosulfan	NSL	µg/L	< 0.0047 U	< 0.0047 U	< 0.0047 U	< 0.0047 U
Beta Bhc (Beta Hexachlorocyclohexane)	NSL	µg/L	< 0.0075 U	< 0.0074 U	< 0.0075 U	< 0.0074 U
Beta Endosulfan	NSL	µg/L	< 0.0035 U	< 0.0035 U	< 0.0035 U	< 0.0035 U
Chlordane	0.05	µg/L	< 0.031 U	< 0.03 U	< 0.031 U	< 0.03 U
Delta BHC (Delta Hexachlorocyclohexane)	NSL	µg/L	< 0.0054 U	< 0.0053 U	< 0.0054 U	< 0.0053 U
Dieldrin	0.004	µg/L	< 0.00092 U	< 0.00091 U	< 0.00092 U	< 0.00091 U
Endosulfan Sulfate	NSL	µg/L	< 0.0058 U	< 0.0058 U	< 0.0058 U	< 0.0058 U
Endrin	NSL	µg/L	< 0.0038 U	< 0.0037 U	< 0.0038 U	< 0.0037 U
Endrin Aldehyde	5	µg/L	< 0.004 U	< 0.004 U	< 0.004 U	< 0.004 U
Endrin Ketone	5	µg/L	< 0.0036 U	< 0.0035 U	< 0.0036 U	< 0.0035 U
Gamma Bhc (Lindane)	NSL	µg/L	< 0.0037 U	< 0.0037 U	< 0.0037 U	< 0.0037 U
Heptachlor	0.04	µg/L	< 0.0055 U	< 0.0055 U	< 0.0055 U	< 0.0055 U
Heptachlor Epoxide	0.03	µg/L	< 0.0063 U	< 0.0062 U	< 0.0063 U	< 0.0062 U
Hexachlorobenzene	0.04	µg/L	< 0.026 U	< 0.025 U	< 0.026 U	< 0.025 U
Methoxychlor	35	µg/L	< 0.0094 U	< 0.0093 U	< 0.0094 U	< 0.0093 U
P,P'-DDD	0.3	µg/L	< 0.0038 U	< 0.0038 U	< 0.0038 U	< 0.0038 U
P,P'-DDE	0.2	µg/L	< 0.0046 U	< 0.0045 U	< 0.0046 U	< 0.0045 U
P,P'-DDT	0.2	µg/L	< 0.0055 U	< 0.0055 U	< 0.0055 U	< 0.0055 U
Toxaphene	0.06	µg/L	< 0.6 U	< 0.6 U	< 0.6 U	< 0.6 U
VOCs (SW8260D)						
1,1,1-Trichloroethane (TCA)	5	µg/L	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U
1,1,2,2-Tetrachloroethane	5	µg/L	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	µg/L	< 0.21 U	< 0.21 U	< 0.21 U	< 0.21 U
1,1,2-Trichloroethane	1	µg/L	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U
1,1-Dichloroethane	5	µg/L	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U
1,1-Dichloroethene	5	µg/L	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U
1,2,3-Trichlorobenzene	5	µg/L	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U
1,2,4-Trichlorobenzene	5	µg/L	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dibromo-3-Chloropropane	0.04	µg/L	< 0.85 U	< 0.85 U	< 0.85 U	< 0.85 U
1,2-Dibromoethane (Ethylene Dibromide)	NSL	µg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U
1,2-Dichlorobenzene	3	µg/L	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U
1,2-Dichloroethane	0.6	µg/L	< 0.3 U	< 0.3 U	< 0.3 U	< 0.3 U
1,2-Dichloropropane	1	µg/L	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U
1,3-Dichlorobenzene	3	µg/L	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U
1,4-Dichlorobenzene	3	µg/L	< 0.13 U	< 0.13 U	< 0.13 U	< 0.13 U
1,4-Dioxane (P-Dioxane)	0.35	µg/L	< 18 U	< 18 U	< 18 U	< 18 U
2-Hexanone	50	µg/L	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U
Acetone	50	µg/L	< 2 U	< 2 U	2.8 J	2.5 J
Benzene	1	µg/L	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U

Table 4. Summary of Surface Water COC Concentrations (May 2023)

Location ID Sample Name Parent Sample ID Sample Date			SW-01	SW-02	SW-02	SW-03
			518014-SW-01	518014-SW-02	518014-FD-01-SW	518014-SW-03
					518014-SW-02	
			5/24/2023	5/24/2023	5/24/2023	5/24/2023
Analyte	NYSDEC AWQS ¹	Unit				
Bromochloromethane	5	µg/L	< 0.28 U	< 0.28 U	< 0.28 U	< 0.28 U
Bromodichloromethane	50	µg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U
Bromoform	50	µg/L	< 0.41 U	< 0.41 U	< 0.41 U	< 0.41 U
Bromomethane	5	µg/L	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U
Carbon Disulfide	60	µg/L	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U
Carbon Tetrachloride	5	µg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U
Chlorobenzene	5	µg/L	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Chloroethane	5	µg/L	< 0.34 U	< 0.34 U	< 0.34 U	< 0.34 U
Chloroform	7	µg/L	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U
Chloromethane	NSL	µg/L	< 0.5 U	< 0.5 U	< 0.5 U	< 0.5 U
Cis-1,2-Dichloroethylene	5	µg/L	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U
Cis-1,3-Dichloropropene	0.4	µg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U
Cyclohexane	NSL	µg/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U
Dibromochloromethane	50	µg/L	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U
Dichlorodifluoromethane	5	µg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U
Ethylbenzene	5	µg/L	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U
Isopropylbenzene (Cumene)	5	µg/L	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U
Methyl Acetate	NSL	µg/L	< 0.61 U	< 0.61 U	< 0.61 U	< 0.61 U
Methyl Ethyl Ketone (2-Butanone)	50	µg/L	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NSL	µg/L	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U
Methylcyclohexane	NSL	µg/L	< 0.16 U	< 0.16 U	< 0.16 U	< 0.16 U
Methylene Chloride	5	µg/L	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U
Styrene	5	µg/L	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U
Tert-Butyl Methyl Ether	10	µg/L	< 0.17 U	< 0.17 U	< 0.17 U	< 0.17 U
Tetrachloroethylene (PCE)	5	µg/L	< 0.17 U	< 0.17 U	< 0.17 U	< 0.17 U
Toluene	5	µg/L	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U
Trans-1,2-Dichloroethene	5	µg/L	< 0.17 U	< 0.17 U	< 0.17 U	< 0.17 U
Trans-1,3-Dichloropropene	0.4	µg/L	< 0.14 U	< 0.14 U	< 0.14 U	< 0.14 U
Trichloroethylene (TCE)	5	µg/L	< 0.17 U	< 0.17 U	< 0.17 U	< 0.17 U
Trichlorofluoromethane	5	µg/L	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U
Vinyl Chloride	2	µg/L	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U
Xylenes, Total	5	µg/L	< 1 U	< 1 U	< 1 U	< 1 U
SVOCs (SW8270E)						
1,2,4,5-Tetrachlorobenzene	NSL	µg/L	< 1.1 U	< 1 U	< 1.3 U	< 1.1 U
2,4,5-Trichlorophenol	NSL	µg/L	< 0.42 U	< 0.39 U	< 0.49 U	< 0.4 U
2,4,6-Trichlorophenol	NSL	µg/L	< 0.35 U	< 0.32 U	< 0.41 U	< 0.34 U
2,4-Dichlorophenol	5	µg/L	< 0.43 U	< 0.4 U	< 0.51 U	< 0.42 U
2,4-Dimethylphenol	50	µg/L	< 0.38 U	< 0.35 U	< 0.45 U	< 0.37 U
2,4-Dinitrophenol	10	µg/L	< 1.2 UJ	< 1.1 UJ	< 1.5 UJ	< 1.2 UJ
2,4-Dinitrotoluene	5	µg/L	< 0.32 U	< 0.3 U	< 0.38 U	< 0.31 U
2,6-Dinitrotoluene	5	µg/L	< 0.5 U	< 0.47 U	< 0.6 U	< 0.49 U
2-Chloronaphthalene	10	µg/L	< 0.75 U	< 0.69 U	< 0.89 U	< 0.73 U
2-Chlorophenol	1	µg/L	< 0.38 U	< 0.35 U	< 0.45 U	< 0.37 U

Table 4. Summary of Surface Water COC Concentrations (May 2023)

Location ID Sample Name Parent Sample ID Sample Date			SW-01	SW-02	SW-02	SW-03
			518014-SW-01	518014-SW-02	518014-FD-01-SW	518014-SW-03
					518014-SW-02	
			5/24/2023	5/24/2023	5/24/2023	5/24/2023
Analyte	NYSDEC AWQS ¹	Unit				
2-Methylnaphthalene	NSL	µg/L	< 0.86 U	< 0.8 U	< 1 U	< 0.83 U
2-Methylphenol (O-Cresol)	NSL	µg/L	< 0.42 U	< 0.39 U	< 0.5 U	< 0.41 U
2-Nitroaniline	5	µg/L	< 0.46 U	< 0.42 U	< 0.54 U	< 0.44 U
2-Nitrophenol	NSL	µg/L	< 0.5 U	< 0.46 U	< 0.59 U	< 0.48 U
3- And 4- Methylphenol (Total)	NSL	µg/L	< 0.44 U	< 0.41 U	< 0.52 U	< 0.43 U
3,3'-Dichlorobenzidine	5	µg/L	< 0.42 U	< 0.39 U	< 0.5 U	< 0.41 U
3-Nitroaniline	5	µg/L	< 0.47 U	< 0.44 UJ	< 0.56 U	< 0.46 U
4,6-Dinitro-2-Methylphenol	NSL	µg/L	< 2.1 UJ	< 2 UJ	< 2.5 UJ	< 2.1 UJ
4-Bromophenyl Phenyl Ether	NSL	µg/L	< 0.65 U	< 0.61 U	< 0.78 U	< 0.63 U
4-Chloro-3-Methylphenol	NSL	µg/L	< 0.58 U	< 0.54 U	< 0.69 U	< 0.57 U
4-Chloroaniline	5	µg/L	< 4.8 U	< 4.4 U	< 5.7 U	< 4.6 U
4-Chlorophenyl Phenyl Ether	NSL	µg/L	< 0.8 U	< 0.74 U	< 0.95 U	< 0.78 U
4-Nitroaniline	5	µg/L	< 0.4 U	< 0.37 UJ	< 0.48 U	< 0.39 U
4-Nitrophenol	NSL	µg/L	< 1.2 U	< 1.1 U	< 1.4 U	< 1.1 U
Acenaphthene	20	µg/L	< 0.72 U	< 0.67 U	< 0.86 U	< 0.7 U
Acenaphthylene	NSL	µg/L	< 0.59 U	< 0.55 U	< 0.7 U	< 0.57 U
Acetophenone	NSL	µg/L	< 0.46 U	< 0.43 U	< 0.55 U	< 0.45 U
Anthracene	50	µg/L	< 0.5 U	< 0.46 U	< 0.59 U	< 0.48 U
Atrazine	NSL	µg/L	< 1.5 U	< 1.4 U	< 1.8 U	< 1.5 U
Benzaldehyde	NSL	µg/L	< 0.66 UJ	< 0.62 UJ	< 0.79 UJ	< 0.65 UJ
Benzo(A)Anthracene	0.002	µg/L	< 0.35 U	< 0.32 U	< 0.41 U	< 0.34 U
Benzo(A)Pyrene	NSL	µg/L	< 0.4 U	< 0.37 U	< 0.47 U	< 0.39 U
Benzo(B)Fluoranthene	0.002	µg/L	< 0.3 U	< 0.28 U	< 0.35 U	< 0.29 U
Benzo(G,H,I)Perylene	NSL	µg/L	< 0.48 U	< 0.45 U	< 0.57 U	< 0.47 U
Benzo(K)Fluoranthene	0.002	µg/L	< 0.42 U	< 0.39 U	< 0.5 U	< 0.41 U
Benzyl Butyl Phthalate	50	µg/L	< 0.36 UJ	< 0.34 UJ	< 0.43 UJ	< 0.35 UJ
Biphenyl (Diphenyl)	5	µg/L	< 0.85 U	< 0.79 U	< 1 U	< 0.82 U
Bis(2-Chloroethoxy) Methane	5	µg/L	< 0.53 U	< 0.49 U	< 0.63 U	< 0.51 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	µg/L	< 0.42 U	< 0.39 U	< 0.5 U	< 0.41 U
Bis(2-Chloroisopropyl) Ether	5	µg/L	< 0.69 U	< 0.64 U	< 0.82 U	< 0.67 U
Bis(2-Ethylhexyl) Phthalate	5	µg/L	< 0.3 UJ	< 0.28 UJ	< 0.35 UJ	< 0.29 UJ
Caprolactam	NSL	µg/L	< 0.66 UJ	< 0.61 UJ	< 0.78 UJ	< 0.64 UJ
Carbazole	NSL	µg/L	< 0.42 U	< 0.39 U	< 0.5 U	< 0.41 U
Chrysene	0.002	µg/L	< 0.42 U	< 0.39 U	< 0.5 U	< 0.41 U
Dibenz(A,H)Anthracene	NSL	µg/L	< 0.44 U	< 0.41 U	< 0.52 U	< 0.42 U
Dibenzofuran	NSL	µg/L	< 0.79 U	< 0.73 U	< 0.93 U	< 0.76 U
Diethyl Phthalate	50	µg/L	< 0.51 U	< 0.48 U	< 0.61 U	< 0.5 U
Dimethyl Phthalate	50	µg/L	< 0.4 U	< 0.37 U	< 0.48 U	< 0.39 U
Di-N-Butyl Phthalate	50	µg/L	< 0.46 U	< 0.43 U	< 0.55 U	< 0.45 U
Di-N-Octylphthalate	50	µg/L	< 0.3 UJ	< 0.28 UJ	< 0.36 UJ	< 0.29 UJ
Fluoranthene	50	µg/L	< 0.52 U	< 0.48 U	< 0.61 U	< 0.5 U
Fluorene	50	µg/L	< 0.7 U	< 0.65 U	< 0.83 U	< 0.68 U
Hexachlorobenzene	0.04	µg/L	< 0.66 U	< 0.62 U	< 0.79 U	< 0.64 U

Table 4. Summary of Surface Water COC Concentrations (May 2023)

			Location ID	SW-01	SW-02	SW-02	SW-03
			Sample Name	518014-SW-01	518014-SW-02	518014-FD-01-SW	518014-SW-03
			Parent Sample ID			518014-SW-02	
			Sample Date	5/24/2023	5/24/2023	5/24/2023	5/24/2023
Analyte	NYSDEC AWQS ¹	Unit					
Hexachlorobutadiene	0.5	µg/L	< 1.1 UJ	< 1.1 UJ	< 1.3 UJ	< 1.1 UJ	
Hexachlorocyclopentadiene	5	µg/L	< 2.6 UJ	< 2.4 UJ	< 3.1 U	< 2.5 UJ	
Hexachloroethane	5	µg/L	< 1.1 UJ	< 1.1 UJ	< 1.4 UJ	< 1.1 UJ	
Indeno(1,2,3-C,D)Pyrene	0.002	µg/L	< 0.44 U	< 0.41 U	< 0.52 U	< 0.42 U	
Isophorone	50	µg/L	< 0.5 U	< 0.46 U	< 0.59 U	< 0.48 U	
Naphthalene	10	µg/L	< 0.83 U	< 0.77 U	< 0.99 U	< 0.81 U	
Nitrobenzene	0.4	µg/L	< 0.62 U	< 0.58 U	< 0.74 U	< 0.6 U	
N-Nitrosodi-N-Propylamine	NSL	µg/L	< 0.6 U	< 0.56 U	< 0.71 U	< 0.58 U	
N-Nitrosodiphenylamine	50	µg/L	< 0.44 U	< 0.41 U	< 0.52 U	< 0.43 U	
Pentachlorophenol	1	µg/L	< 0.44 U	< 0.41 U	< 0.52 U	< 0.43 U	
Phenanthrene	50	µg/L	< 0.66 U	< 0.61 U	< 0.78 U	< 0.64 U	
Phenol	NSL	µg/L	< 0.54 U	< 0.51 U	2.6 J	1.2 J	
Pyrene	50	µg/L	< 0.42 U	< 0.39 U	< 0.5 U	< 0.41 U	
SVOCs SIM (SW8270D-SIM)							
1,4-Dioxane (P-Dioxane)	0.35	µg/L	< 0.031 U	< 0.031 U	< 0.031 U	< 0.031 U	

Notes:

(1) NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1)

NSL = No screening level available.

U = Analyte not detected.

J = Concentration is estimated.

ng/L = Nanogram(s) per liter

µg/L = Microgram(s) per liter

AWQS = Ambient Water Quality Standard

NSL = No screening level

NYSDEC = New York State Department of Environmental Conservation

SVOCs = Semivolatile organic compounds

VOCs = Volatile organic compounds

SIM = Selected ion monitoring

Concentrations exceeding the screening level are shaded.

Table 5. Summary of Sediment COC Concentrations (May 2023)

Location ID Sample Name Parent Sample ID Sample Date			SD-01	SD-02	SD-02	SD-03
			518014-SD-01	518014-SD-02	518014-FD-01-SD	518014-SD-03
					518014-SD-02 20230524	
			5/24/2023	5/24/2023	5/24/2023	5/24/2023
Analyte	NYSDEC SGVs Class A (µg/kg)	Unit				
PFAS (EPA 1633)						
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	NA	µg/kg	< 0.1 U	< 0.1 U	< 0.11 U	< 0.11 U
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	NA	µg/kg	< 0.074 U	< 0.074 U	< 0.075 U	< 0.075 U
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	NA	µg/kg	< 0.074 U	< 0.075 U	< 0.076 U	< 0.075 U
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	NA	µg/kg	< 0.081 U	< 0.082 U	< 0.083 U	< 0.082 U
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	NA	µg/kg	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	NA	µg/kg	< 0.97 U	< 0.98 U	< 0.99 U	< 0.98 U
2H,2H,3H,3H-Perfluorooctanoic acid	NA	µg/kg	< 0.17 U	< 0.17 U	< 0.17 U	< 0.17 U
3-Perfluoroheptyl propanoic acid	NA	µg/kg	< 0.08 U	< 0.081 U	< 0.082 U	< 0.081 U
3-Perfluoropropyl propanoic acid	NA	µg/kg	< 0.076 U	< 0.077 U	< 0.078 U	< 0.077 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NA	µg/kg	< 0.065 U	< 0.065 U	< 0.066 U	< 0.066 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid	NA	µg/kg	< 0.028 U	< 0.028 U	< 0.028 U	< 0.028 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NA	µg/kg	< 0.042 U	< 0.042 U	< 0.043 U	0.078 J
N-ethyl perfluoro-1-octanesulfonamide	NA	µg/kg	< 0.17 U	< 0.17 U	< 0.17 U	< 0.17 U
N-ethyl perfluorooctanesulfonamidoacetic acid	NA	µg/kg	< 0.02 U	< 0.021 U	< 0.021 U	< 0.021 U
N-methyl perfluoro-1-octanesulfonamide	NA	µg/kg	< 0.028 U	< 0.028 U	< 0.028 U	0.067 J
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NA	µg/kg	< 0.15 U	< 0.15 U	< 0.16 U	< 0.16 U
Nonafluoro-3,6-dioxaheptanoic acid	NA	µg/kg	< 0.04 U	< 0.041 U	< 0.041 U	< 0.041 U
Perfluoro(2-ethoxyethane)sulfonic acid	NA	µg/kg	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U
Perfluoro-3-methoxypropanoic acid	NA	µg/kg	< 0.042 U	< 0.042 U	< 0.043 U	< 0.042 U
Perfluoro-4-methoxybutanoic acid	NA	µg/kg	< 0.031 U	< 0.031 U	< 0.031 U	< 0.031 U
Perfluorobutanesulfonic acid (PFBS)	NA	µg/kg	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U
Perfluorobutanoic Acid	NA	µg/kg	< 0.14 U	< 0.14 U	< 0.15 U	< 0.15 U
Perfluorodecanesulfonic acid (PFDS)	NA	µg/kg	< 0.044 U	< 0.045 U	< 0.046 U	< 0.045 U
Perfluorodecanoic acid (PFDA)	NA	µg/kg	< 0.018 U	< 0.019 U	< 0.019 U	< 0.019 U
Perfluorododecanesulfonic acid (PFDOS)	NA	µg/kg	< 0.021 U	< 0.021 U	< 0.022 U	< 0.021 U
Perfluorododecanoic acid (PFDoA)	NA	µg/kg	< 0.022 U	< 0.022 U	< 0.022 U	< 0.022 U
Perfluoroheptanesulfonic acid (PFHpS)	NA	µg/kg	< 0.022 U	< 0.022 U	< 0.023 U	< 0.023 U
Perfluoroheptanoic acid (PFHpA)	NA	µg/kg	< 0.015 U	< 0.015 U	< 0.015 U	< 0.015 U
Perfluorohexanesulfonic acid (PFHxS)	NA	µg/kg	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U
Perfluorohexanoic acid (PFHxA)	NA	µg/kg	0.015 J	0.014 J	0.016 J	0.023 J
Perfluorononanesulfonic Acid (PFNS)	NA	µg/kg	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U
Perfluorononanoic acid (PFNA)	NA	µg/kg	< 0.026 U	< 0.026 U	< 0.026 U	< 0.026 U
Perfluorooctane Sulfonamide (FOSA)	NA	µg/kg	< 0.1 U	< 0.1 U	< 0.11 U	< 0.11 U
Perfluorooctanesulfonic acid (PFOS)	NA	µg/kg	< 0.035 U	< 0.036 U	0.063 J	< 0.036 U
Perfluorooctanoic acid (PFOA)	NA	µg/kg	< 0.029 U	< 0.029 U	< 0.029 U	< 0.029 U
Perfluoropentanesulfonic Acid (PFPeS)	NA	µg/kg	< 0.029 U	< 0.03 U	< 0.03 U	< 0.03 U
Perfluoropentanoic Acid (PFPeA)	NA	µg/kg	< 0.026 U	< 0.026 U	< 0.026 U	< 0.026 U
Perfluorotetradecanoic acid (PFTA)	NA	µg/kg	< 0.018 U	< 0.018 U	< 0.019 U	< 0.018 U
Perfluorotridecanoic Acid (PFTriA/PFTrDA)	NA	µg/kg	< 0.027 U	< 0.027 U	< 0.027 U	< 0.027 U
Perfluoroundecanoic Acid (PFUnA)	NA	µg/kg	< 0.02 U	< 0.02 U	< 0.021 U	< 0.02 U

Table 5. Summary of Sediment COC Concentrations (May 2023)

Location ID Sample Name Parent Sample ID Sample Date			SD-01	SD-02	SD-02	SD-03
			518014-SD-01	518014-SD-02	518014-FD-01-SD	518014-SD-03
					518014-SD-02 20230524	
			5/24/2023	5/24/2023	5/24/2023	5/24/2023
Analyte	NYSDEC SGVs Class A (µg/kg)	Unit				
TOC (Lloyd Kahn)						
Total Organic Carbon	NA	mg/kg	1800 J	2300 J-	1300 J	6500 J
Pesticides (SW8081B)						
Alachlor	NA	mg/kg	< 0.0068 UJ	< 0.0075 U	< 0.0068 U	< 0.084 U
Aldrin	NA	mg/kg	< 0.00056 UJ	< 0.00062 U	< 0.00056 U	< 0.007 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	< 47	mg/kg	< 0.0031 UJ	< 0.0034 UJ	< 0.0031 UJ	< 0.038 UJ
Alpha Endosulfan	NA	mg/kg	< 0.0028 UJ	< 0.003 U	< 0.0028 U	< 0.034 U
Beta Bhc (Beta Hexachlorocyclohexane)	NA	mg/kg	< 0.0025 UJ	< 0.0028 U	< 0.0026 U	< 0.032 U
Beta Endosulfan	NA	mg/kg	< 0.0028 UJ	< 0.003 U	< 0.0028 U	< 0.035 U
Chlordane	< 68	mg/kg	< 0.008 UJ	< 0.0088 U	< 0.008 U	< 0.1 U
Delta BHC (Delta Hexachlorocyclohexane)	NA	mg/kg	< 0.0038 UJ	< 0.0041 U	< 0.0038 U	< 0.047 U
Dieldrin	< 180	mg/kg	< 0.00044 UJ	< 0.00049 U	< 0.00044 U	< 0.0055 U
Endosulfan Sulfate	NA	mg/kg	< 0.0028 UJ	< 0.0031 U	< 0.0028 U	< 0.035 U
Endrin	< 90	mg/kg	< 0.0028 UJ	< 0.0031 U	< 0.0028 U	< 0.035 U
Endrin Aldehyde	NA	mg/kg	< 0.0056 UJ	< 0.0061 U	< 0.0056 U	< 0.069 U
Endrin Ketone	NA	mg/kg	< 0.0026 UJ	< 0.0029 U	< 0.0026 U	< 0.033 U
Gamma Bhc (Lindane)	NA	mg/kg	< 0.00048 UJ	< 0.00053 U	< 0.00048 U	< 0.006 U
Heptachlor	< 75	mg/kg	< 0.00055 UJ	< 0.00061 U	< 0.00056 U	< 0.0069 U
Heptachlor Epoxide	< 15	mg/kg	< 0.00051 UJ	< 0.00056 U	< 0.00051 U	< 0.0064 U
Hexachlorobenzene	NA	mg/kg	< 0.0038 UJ	< 0.0042 U	< 0.0038 U	< 0.048 U
Methoxychlor	< 59	mg/kg	< 0.007 UJ	< 0.0077 U	< 0.0071 U	< 0.087 U
P,P'-DDD	NA	mg/kg	< 0.00051 UJ	< 0.00056 U	< 0.00051 U	< 0.0063 U
P,P'-DDE	NA	mg/kg	< 0.00053 UJ	< 0.00058 U	< 0.00053 U	< 0.0066 U
P,P'-DDT	NA	mg/kg	< 0.00048 UJ	< 0.00053 U	< 0.00049 U	< 0.006 U
Toxaphene	< 6	mg/kg	< 0.055 UJ	< 0.061 U	< 0.055 U	< 0.69 U
VOCs (SW8260D)						
1,1,1,2-Tetrachloroethane	< 9,000	mg/kg	< 0.00039 U	< 0.00046 U	< 0.00042 U	< 0.00036 U
1,1,1-Trichloroethane (TCA)	NA	mg/kg	< 0.00056 U	< 0.00066 U	< 0.0006 U	< 0.00052 U
1,1,2,2-Tetrachloroethane	< 2,800	mg/kg	< 0.0004 U	< 0.00048 U	< 0.00043 U	< 0.00037 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	mg/kg	< 0.00063 U	< 0.00074 U	< 0.00068 U	< 0.00058 U
1,1,2-Trichloroethane	NA	mg/kg	< 0.00039 U	< 0.00046 U	< 0.00042 U	< 0.00036 U
1,1-Dichloroethane	NA	mg/kg	< 0.0005 U	< 0.00059 U	< 0.00054 U	< 0.00046 U
1,1-Dichloroethene	< 520	mg/kg	< 0.0006 U	< 0.00071 U	< 0.00065 U	< 0.00055 U
1,1-Dichloropropene	NA	mg/kg	< 0.00065 U	< 0.00077 U	< 0.0007 U	< 0.0006 U
1,2,3-Trichlorobenzene	< 230	mg/kg	< 0.00041 U	< 0.00049 U	< 0.00045 U	< 0.00038 U
1,2,3-Trichloropropane	NA	mg/kg	< 0.00065 U	< 0.00076 U	< 0.0007 U	< 0.0006 U
1,2,4-Trichlorobenzene	< 35,000	mg/kg	< 0.00044 U	< 0.00052 U	< 0.00048 U	< 0.00041 U
1,2,4-Trimethylbenzene	< 3,400	mg/kg	< 0.00056 U	< 0.00066 U	< 0.0006 U	< 0.00051 U
1,2-Dibromo-3-Chloropropane	NA	mg/kg	< 0.00058 U	< 0.00068 U	< 0.00063 U	< 0.00053 U
1,2-Dibromoethane (Ethylene Dibromide)	NA	mg/kg	< 0.00056 U	< 0.00066 U	< 0.0006 U	< 0.00052 U
1,2-Dichlorobenzene	< 280	mg/kg	< 0.00039 U	< 0.00046 U	< 0.00042 U	< 0.00036 U
1,2-Dichloroethane	NA	mg/kg	< 0.00049 U	< 0.00058 U	< 0.00053 U	< 0.00045 U

Table 5. Summary of Sediment COC Concentrations (May 2023)

Location ID Sample Name Parent Sample ID Sample Date			SD-01	SD-02	SD-02	SD-03
			518014-SD-01	518014-SD-02	518014-FD-01-SD	518014-SD-03
					518014-SD-02 20230524	
			5/24/2023	5/24/2023	5/24/2023	5/24/2023
Analyte	NYSDEC SGVs Class A (µg/kg)	Unit				
1,2-Dichloropropane	NA	mg/kg	< 0.00045 U	< 0.00054 U	< 0.00049 U	< 0.00042 U
1,3,5-Trichlorobenzene	NA	mg/kg	< 0.00042 U	< 0.00049 U	< 0.00045 U	< 0.00038 U
1,3,5-Trimethylbenzene (Mesitylene)	NA	mg/kg	< 0.00043 U	< 0.0005 U	< 0.00046 U	< 0.00039 U
1,3-Dichlorobenzene	< 1,800	mg/kg	< 0.0004 U	< 0.00048 U	< 0.00044 U	< 0.00037 U
1,3-Dichloropropane	NA	mg/kg	< 0.00036 U	< 0.00043 U	< 0.00039 U	< 0.00033 U
1,4-Dichlorobenzene	< 720	mg/kg	< 0.00044 U	< 0.00052 U	< 0.00048 U	< 0.00041 U
2,2-Dichloropropane	NA	mg/kg	< 0.00057 U	< 0.00067 U	< 0.00061 U	< 0.00052 U
2-Chlorotoluene	NA	mg/kg	< 0.00037 U	< 0.00044 U	< 0.0004 U	< 0.00034 U
2-Hexanone	NA	mg/kg	< 0.0037 U	< 0.0043 U	< 0.004 U	< 0.0034 U
2-Methoxy-2-Methylbutane	NA	mg/kg	< 0.0005 U	< 0.00059 U	< 0.00054 U	< 0.00046 U
4-Chlorotoluene	NA	mg/kg	< 0.00033 U	< 0.00039 U	< 0.00035 U	< 0.0003 U
Acetone	NA	mg/kg	0.010 J	0.0094 J	< 0.0071 U	0.015 J
Acrylonitrile	NA	mg/kg	< 0.00065 U	< 0.00077 U	< 0.00071 U	< 0.0006 U
Benzene	NA	mg/kg	< 0.00043 U	< 0.0005 U	< 0.00046 U	< 0.00039 U
Bromobenzene	< 530	mg/kg	< 0.00034 UJ	< 0.0004 UJ	< 0.00037 UJ	< 0.00031 UJ
Bromochloromethane	NA	mg/kg	< 0.00057 U	< 0.00068 U	< 0.00062 U	< 0.00053 U
Bromodichloromethane	NA	mg/kg	< 0.00038 U	< 0.00045 U	< 0.00041 U	< 0.00035 U
Bromoform	NA	mg/kg	< 0.00045 U	< 0.00053 U	< 0.00048 U	< 0.00041 U
Bromomethane	NA	mg/kg	< 0.0013 UJ	< 0.0015 UJ	< 0.0014 UJ	< 0.0012 UJ
Carbon Disulfide	NA	mg/kg	< 0.0059 UJ	< 0.0069 UJ	< 0.0063 UJ	< 0.0054 UJ
Carbon Tetrachloride	< 1,070	mg/kg	< 0.00058 U	< 0.00068 U	< 0.00062 U	< 0.00053 U
Chlorobenzene	< 200	mg/kg	< 0.00041 U	< 0.00048 U	< 0.00044 U	< 0.00038 U
Chloroethane	NA	mg/kg	< 0.00081 UJ	< 0.00095 UJ	< 0.00087 UJ	< 0.00074 UJ
Chloroform	NA	mg/kg	< 0.00046 U	< 0.00054 U	< 0.00049 U	< 0.00042 U
Chloromethane	NA	mg/kg	< 0.00072 UJ	< 0.00085 UJ	< 0.00078 UJ	< 0.00067 UJ
Cis-1,2-Dichloroethylene	NA	mg/kg	< 0.00047 U	< 0.00055 U	< 0.0005 U	< 0.00043 U
Cis-1,3-Dichloropropene	NA	mg/kg	< 0.00041 U	< 0.00048 U	< 0.00044 U	< 0.00038 U
Cymene	NA	mg/kg	< 0.00045 U	< 0.00053 U	< 0.00049 U	< 0.00042 U
Dibromochloromethane	NA	mg/kg	< 0.00046 U	< 0.00055 U	< 0.0005 U	< 0.00043 U
Dibromomethane	NA	mg/kg	< 0.00051 U	< 0.0006 U	< 0.00055 U	< 0.00047 U
Dichlorodifluoromethane	NA	mg/kg	< 0.00076 UJ	< 0.00089 UJ	< 0.00082 UJ	< 0.0007 UJ
Diethyl Ether (Ethyl Ether)	NA	mg/kg	< 0.0006 U	< 0.00071 U	< 0.00065 U	< 0.00055 U
Ethyl Tert-Butyl Ether	NA	mg/kg	< 0.00057 U	< 0.00068 U	< 0.00062 U	< 0.00053 U
Ethylbenzene	< 430	mg/kg	< 0.00044 U	< 0.00052 U	< 0.00047 U	< 0.0004 U
Hexachlorobutadiene	< 1,200	mg/kg	< 0.00061 U	< 0.00072 U	< 0.00066 U	< 0.00057 U
Isopropyl Ether	NA	mg/kg	< 0.0005 U	< 0.00059 U	< 0.00054 U	< 0.00046 U
Isopropylbenzene (Cumene)	< 210	mg/kg	< 0.00046 U	< 0.00054 U	< 0.00049 U	< 0.00042 U
m,p-Xylene	NA	mg/kg	< 0.001 U	< 0.0012 U	< 0.0011 U	< 0.00096 U
Methyl Acetate	NA	mg/kg	< 0.001 U	< 0.0012 U	< 0.0011 U	< 0.00097 U
Methyl Ethyl Ketone (2-Butanone)	NA	mg/kg	< 0.0046 U	< 0.0054 U	< 0.0049 U	< 0.0042 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NA	mg/kg	< 0.0032 U	< 0.0038 U	< 0.0035 U	< 0.003 U
Methylcyclohexane	NA	mg/kg	< 0.00057 U	< 0.00067 U	< 0.00061 U	< 0.00052 U

Table 5. Summary of Sediment COC Concentrations (May 2023)

Location ID Sample Name Parent Sample ID Sample Date			SD-01	SD-02	SD-02	SD-03
			518014-SD-01	518014-SD-02	518014-FD-01-SD	518014-SD-03
					518014-SD-02 20230524	
			5/24/2023	5/24/2023	5/24/2023	5/24/2023
Analyte	NYSDEC SGVs Class A (µg/kg)	Unit				
Methylene Chloride	NA	mg/kg	< 0.0007 U	< 0.00083 U	< 0.00076 U	< 0.00065 U
Naphthalene	NA	mg/kg	< 0.00053 U	< 0.00062 U	< 0.00057 U	< 0.00048 U
N-Butylbenzene	NA	mg/kg	< 0.00048 U	< 0.00056 U	< 0.00052 U	< 0.00044 U
N-Propylbenzene	NA	mg/kg	< 0.00035 U	< 0.00042 U	< 0.00038 U	< 0.00032 U
O-Xylene (1,2-Dimethylbenzene)	NA	mg/kg	< 0.00041 U	< 0.00048 U	< 0.00044 U	< 0.00038 U
Sec-Butylbenzene	NA	mg/kg	< 0.00069 U	< 0.00082 U	< 0.00075 U	< 0.00064 U
Styrene	NA	mg/kg	< 0.00036 U	< 0.00043 U	< 0.00039 U	< 0.00033 U
T-Butylbenzene	NA	mg/kg	< 0.00063 U	< 0.00074 U	< 0.00068 U	< 0.00058 U
Tert-Butyl Alcohol	NA	mg/kg	< 0.029 U	< 0.034 U	< 0.031 U	< 0.027 U
Tert-Butyl Methyl Ether	NA	mg/kg	< 0.00049 U	< 0.00058 U	< 0.00053 U	< 0.00045 U
Tetrachloroethylene (PCE)	< 16,000	mg/kg	< 0.00062 U	< 0.00073 U	< 0.00066 U	< 0.00057 U
Tetrahydrofuran	NA	mg/kg	< 0.0026 U	< 0.0031 U	< 0.0028 U	< 0.0024 U
Toluene	< 930	mg/kg	< 0.0005 U	< 0.00058 U	< 0.00053 U	< 0.00046 U
Trans-1,2-Dichloroethene	< 1,200	mg/kg	< 0.00053 U	< 0.00063 U	< 0.00058 U	< 0.00049 U
Trans-1,3-Dichloropropene	NA	mg/kg	< 0.00045 U	< 0.00053 U	< 0.00048 U	< 0.00041 U
Trans-1,4-Dichloro-2-Butene	NA	mg/kg	< 0.00045 U	< 0.00053 U	< 0.00049 U	< 0.00042 U
Trichloroethylene (TCE)	< 1,800	mg/kg	< 0.00059 U	< 0.00069 U	< 0.00063 U	< 0.00054 U
Trichlorofluoromethane	NA	mg/kg	< 0.00055 U	< 0.00064 U	< 0.00059 U	< 0.0005 U
Vinyl Chloride	NA	mg/kg	< 0.00054 U	< 0.00064 U	< 0.00058 U	< 0.0005 U
SVOCs (SW8270E)						
1,2,4,5-Tetrachlorobenzene	< 3,000	mg/kg	< 0.081 U	< 0.087 U	< 0.079 U	< 0.098 U
1,2,4-Trichlorobenzene	NA	mg/kg	< 0.077 U	< 0.082 U	< 0.075 U	< 0.093 U
1,2-Dichlorobenzene	NA	mg/kg	< 0.076 U	< 0.081 U	< 0.074 U	< 0.092 U
1,2-Diphenylhydrazine	NA	mg/kg	< 0.077 U	< 0.083 U	< 0.075 U	< 0.094 U
1,3-Dichlorobenzene	< 1,800	mg/kg	< 0.074 U	< 0.079 U	< 0.072 U	< 0.089 U
1,4-Dichlorobenzene	< 720	mg/kg	< 0.075 U	< 0.08 U	< 0.073 U	< 0.091 U
1-Methylnaphthalene	NA	mg/kg	< 0.081 U	< 0.086 U	< 0.079 U	< 0.098 U
2,4,5-Trichlorophenol	NA	mg/kg	< 0.077 U	< 0.082 U	< 0.075 U	< 0.093 U
2,4,6-Trichlorophenol	NA	mg/kg	< 0.076 U	< 0.081 U	< 0.074 U	< 0.091 U
2,4-Dichlorophenol	NA	mg/kg	< 0.077 U	< 0.082 U	< 0.075 U	< 0.093 U
2,4-Dimethylphenol	NA	mg/kg	< 0.1 U	< 0.11 U	< 0.1 U	< 0.13 U
2,4-Dinitrophenol	NA	mg/kg	< 0.35 U	< 0.37 U	< 0.34 U	< 0.42 U
2,4-Dinitrotoluene	NA	mg/kg	< 0.079 U	< 0.085 U	< 0.077 U	< 0.096 U
2,6-Dinitrotoluene	NA	mg/kg	< 0.09 U	< 0.096 U	< 0.088 U	< 0.11 U
2-Chloronaphthalene	NA	mg/kg	< 0.07 U	< 0.075 U	< 0.069 U	< 0.085 U
2-Chlorophenol	NA	mg/kg	< 0.08 U	< 0.086 U	< 0.078 U	< 0.097 U
2-Methylnaphthalene	NA	mg/kg	< 0.078 U	< 0.083 U	< 0.076 U	< 0.094 U
2-Methylphenol (O-Cresol)	NA	mg/kg	< 0.079 U	< 0.084 U	< 0.077 U	< 0.096 U
2-Nitroaniline	NA	mg/kg	< 0.079 UJ	< 0.085 UJ	< 0.077 UJ	< 0.096 UJ
2-Nitrophenol	NA	mg/kg	< 0.082 U	< 0.088 U	< 0.08 U	< 0.099 U
3- And 4- Methylphenol (Total)	NA	mg/kg	< 0.086 U	< 0.092 U	< 0.084 U	< 0.1 U
3,3'-Dichlorobenzidine	NA	mg/kg	< 0.052 UJ	< 0.056 UJ	< 0.051 UJ	< 0.063 UJ

Table 5. Summary of Sediment COC Concentrations (May 2023)

Location ID Sample Name Parent Sample ID Sample Date			SD-01	SD-02	SD-02	SD-03
			518014-SD-01	518014-SD-02	518014-FD-01-SD	518014-SD-03
					518014-SD-02 20230524	
			5/24/2023	5/24/2023	5/24/2023	5/24/2023
Analyte	NYSDEC SGVs Class A (µg/kg)	Unit				
3-Nitroaniline	NA	mg/kg	< 0.094 U	< 0.1 U	< 0.091 U	< 0.11 U
4,6-Dinitro-2-Methylphenol	NA	mg/kg	< 0.32 U	< 0.35 U	< 0.32 U	< 0.39 U
4-Bromophenyl Phenyl Ether	NA	mg/kg	< 0.082 U	< 0.088 U	< 0.08 U	< 0.099 U
4-Chloro-3-Methylphenol	NA	mg/kg	< 0.078 U	< 0.084 U	< 0.077 U	< 0.095 U
4-Chloroaniline	NA	mg/kg	< 0.07 UJ	< 0.075 UJ	< 0.069 UJ	< 0.085 UJ
4-Chlorophenyl Phenyl Ether	NA	mg/kg	< 0.077 U	< 0.082 U	< 0.075 U	< 0.093 U
4-Nitroaniline	NA	mg/kg	< 0.067 U	< 0.072 U	< 0.065 U	< 0.081 U
4-Nitrophenol	NA	mg/kg	< 0.17 U	< 0.18 U	< 0.16 U	< 0.2 U
Acenaphthene	NA	mg/kg	< 0.076 U	< 0.081 U	< 0.074 U	< 0.092 U
Acenaphthylene	NA	mg/kg	< 0.078 U	< 0.083 U	< 0.076 U	< 0.094 U
Acetophenone	NA	mg/kg	< 0.078 U	< 0.083 U	< 0.076 U	< 0.094 U
Aniline	NA	mg/kg	< 0.068 U	< 0.072 U	< 0.066 U	< 0.082 U
Anthracene	NA	mg/kg	< 0.077 U	< 0.082 U	< 0.075 U	< 0.093 U
Benzidine	NA	mg/kg	< 0.24 U	< 0.26 U	< 0.24 U	< 0.29 U
Benzo(A)Anthracene	NA	mg/kg	< 0.072 U	< 0.077 U	0.078 J	0.093 J
Benzo(A)Pyrene	NA	mg/kg	< 0.066 U	< 0.07 U	0.065 J	0.096 J
Benzo(B)Fluoranthene	NA	mg/kg	< 0.067 U	< 0.071 U	0.091 J	0.13 J
Benzo(G,H,I)Perylene	NA	mg/kg	< 0.083 U	< 0.089 U	< 0.081 U	< 0.1 U
Benzo(K)Fluoranthene	NA	mg/kg	< 0.072 U	< 0.077 U	< 0.07 U	< 0.087 U
Benzoic Acid	NA	mg/kg	< 0.35 U	< 0.37 U	< 0.34 U	< 0.42 U
Benzyl Butyl Phthalate	NA	mg/kg	< 0.075 U	< 0.08 U	< 0.073 U	< 0.09 U
Bis(2-Chloroethoxy) Methane	NA	mg/kg	< 0.078 U	< 0.083 U	< 0.076 U	< 0.094 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NA	mg/kg	< 0.083 U	< 0.089 U	< 0.081 U	< 0.1 U
Bis(2-Chloroisopropyl) Ether	NA	mg/kg	< 0.17 UJ	< 0.18 UJ	< 0.16 UJ	< 0.2 UJ
Bis(2-Ethylhexyl) Phthalate	< 360,000	mg/kg	< 0.081 U	< 0.087 U	< 0.079 U	0.18 J
Carbazole	NA	mg/kg	< 0.077 U	< 0.083 U	< 0.075 U	< 0.093 U
Chrysene	NA	mg/kg	< 0.072 U	< 0.077 U	0.078 J	0.11 J
Dibenz(A,H)Anthracene	NA	mg/kg	< 0.077 U	< 0.082 U	< 0.075 U	< 0.093 U
Dibenzofuran	NA	mg/kg	< 0.078 U	< 0.083 U	< 0.076 U	< 0.094 U
Diethyl Phthalate	NA	mg/kg	< 0.077 U	< 0.082 U	< 0.075 U	< 0.093 U
Dimethyl Phthalate	NA	mg/kg	< 0.082 U	< 0.087 U	< 0.08 U	< 0.099 U
Di-N-Butyl Phthalate	NA	mg/kg	< 0.072 U	< 0.077 U	< 0.071 U	< 0.088 U
Di-N-Octylphthalate	NA	mg/kg	< 0.079 U	< 0.084 U	< 0.077 U	< 0.095 U
Fluoranthene	NA	mg/kg	< 0.071 U	< 0.076 U	0.15 J	0.20 J
Fluorene	NA	mg/kg	< 0.077 U	< 0.083 U	< 0.075 U	< 0.094 U
Hexachlorobenzene	NA	mg/kg	< 0.083 U	< 0.088 U	< 0.08 U	< 0.1 U
Hexachlorobutadiene	NA	mg/kg	< 0.08 U	< 0.086 U	< 0.078 U	< 0.097 U
Hexachlorocyclopentadiene	< 810	mg/kg	< 0.26 U	< 0.28 R	< 0.25 U	< 0.31 U
Hexachloroethane	NA	mg/kg	< 0.078 U	< 0.083 U	< 0.076 U	< 0.094 U
Indeno(1,2,3-C,D)Pyrene	NA	mg/kg	< 0.087 U	< 0.093 U	< 0.085 U	< 0.11 U
Isophorone	NA	mg/kg	< 0.081 U	< 0.087 U	< 0.079 U	< 0.098 U
Naphthalene	NA	mg/kg	< 0.079 U	< 0.085 U	< 0.077 U	< 0.096 U

Table 5. Summary of Sediment COC Concentrations (May 2023)

Location ID Sample Name Parent Sample ID Sample Date			SD-01	SD-02	SD-02	SD-03
			518014-SD-01	518014-SD-02	518014-FD-01-SD	518014-SD-03
					518014-SD-02 20230524	
			5/24/2023	5/24/2023	5/24/2023	5/24/2023
Analyte	NYSDEC SGVs Class A (µg/kg)	Unit				
Nitrobenzene	NA	mg/kg	< 0.086 U	< 0.092 U	< 0.084 U	< 0.1 U
N-Nitrosodimethylamine	NA	mg/kg	< 0.12 UJ	< 0.12 UJ	< 0.11 UJ	< 0.14 UJ
N-Nitrosodi-N-Propylamine	NA	mg/kg	< 0.086 U	< 0.092 U	< 0.084 U	< 0.1 U
N-Nitrosodiphenylamine	NA	mg/kg	< 0.08 U	< 0.085 U	< 0.078 U	< 0.097 U
Pentachloronitrobenzene	< 150	mg/kg	< 0.084 U	< 0.089 U	< 0.081 U	< 0.1 U
Pentachlorophenol	< 14,000	mg/kg	< 0.18 U	< 0.19 U	< 0.17 U	< 0.22 U
Phenanthrene	NA	mg/kg	< 0.078 U	< 0.083 U	< 0.076 U	0.11 J
Phenol	NA	mg/kg	< 0.092 U	< 0.099 U	< 0.09 U	< 0.11 U
Pyrene	NA	mg/kg	< 0.079 U	< 0.085 U	0.16 J	0.22 J
Pyridine	NA	mg/kg	< 0.064 U	< 0.068 U	< 0.062 U	< 0.077 U
SVOCs SIM (SW8270D-SIM)						
1,4-Dioxane (P-Dioxane)	NA	mg/kg	< 0.024 U	< 0.026 U	< 0.024 U	< 0.029 U

Notes:
U = Analyte not detected.
J = Concentration is estimated.
J- = Concentration is estimated, biased low.
R = Result was rejected during validation.
µg/kg = Microgram(s) per kilogram
mg/kg = Milligram(s) per kilogram
ID = Identification
NYSDEC = New York State Department of Environmental Conservation
SVOC = Semivolatile organic compound
VOC = Volatile organic compound
TOC = Total organic carbon
SIM = Selected ion monitoring
SGVs = Sediment guidance values

Figures

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Legend

- ★ Site Location

0 1,000 2,000
Feet

N

Figure 1
Site Map
Korkay Inc.
Broadalbin, New York

Map Date: 10/9/2023
Projection: NAD 1983 (2011) State Plane
New York East FIPS 3101 (US Feet)
Source:



Department of
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Conservation



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Legend

- Site Boundary
- x Fence Line
- Monitoring Well

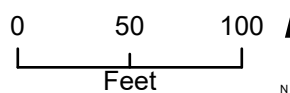


Figure 2
Monitoring Well Locations
Korkay Inc.
Broadalbin, New York

Map Date: 10/9/2023
Projection: NAD 1983 (2011) State Plane
New York East FIPS 3101 (US Feet)
Source:



Department of
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Legend

- Site Boundary
- Fence Line
- Groundwater Elevation Contour (1 ft)
- ➔ Groundwater Flow Direction
- Monitoring Well

Notes:

Groundwater Elevation contours presented in 1 foot intervals in units of ft amsl
ft = feet
amsl = above mean sea level

0 50 100
Feet

Figure 3
Groundwater Contours
(May 2023)

Korkay Inc.
Broadalbin, New York

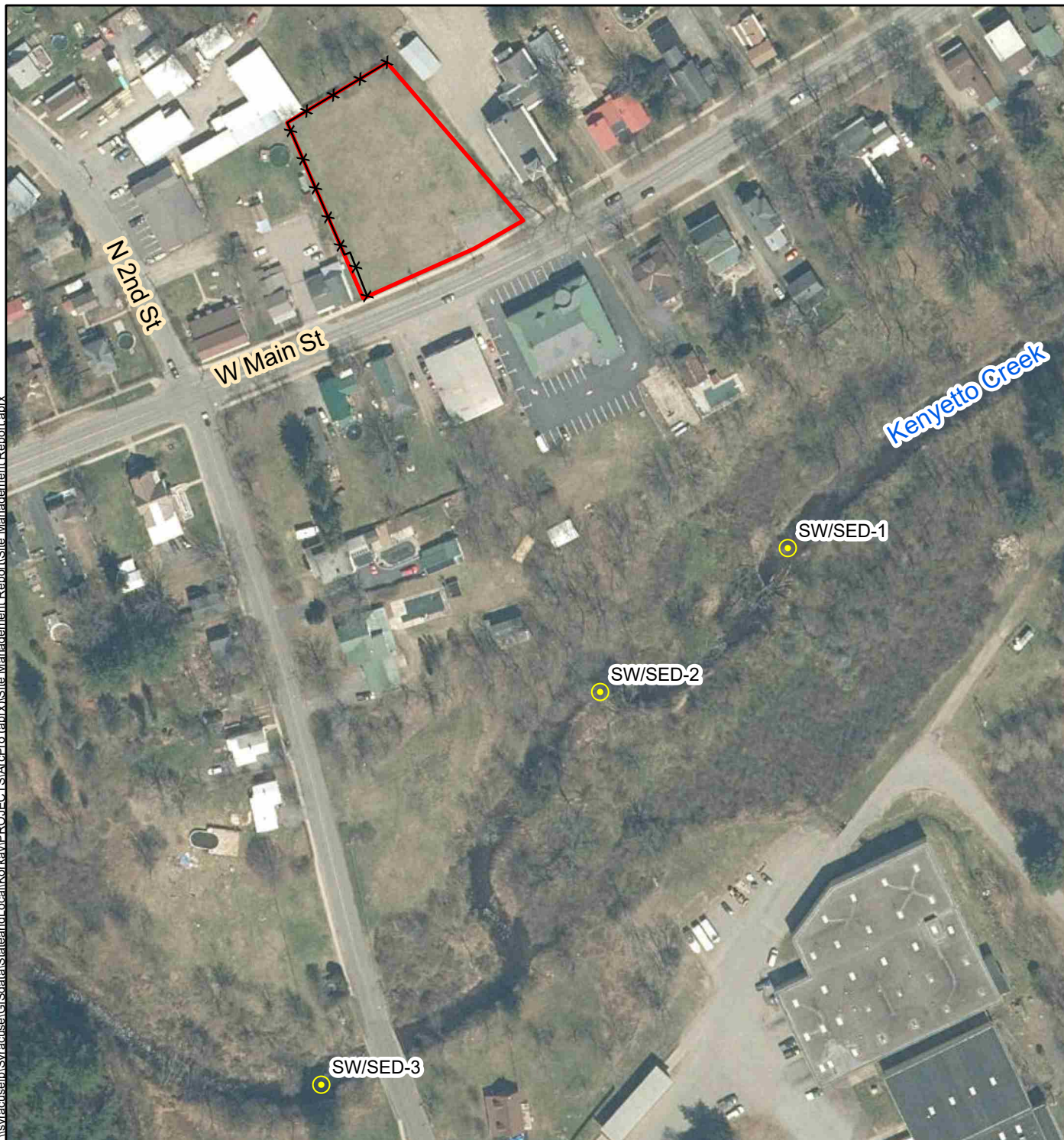
Map Date: 10/9/2023
Projection: NAD 1983 (2011) State Plane
New York East FIPS 3101 (US Feet)
Source:



Department of
Environmental
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Legend

- Site Boundary
- x — x Fence Line
- Surface Water/Sediment Sample Location

Figure 4 Surface Water and Sediment Sample Locations

Korkay Inc.
Broadalbin, New York

Map Date: 10/9/2023
Projection: NAD 1983 (2011) State Plane
New York East FIPS 3101 (US Feet)
Source:

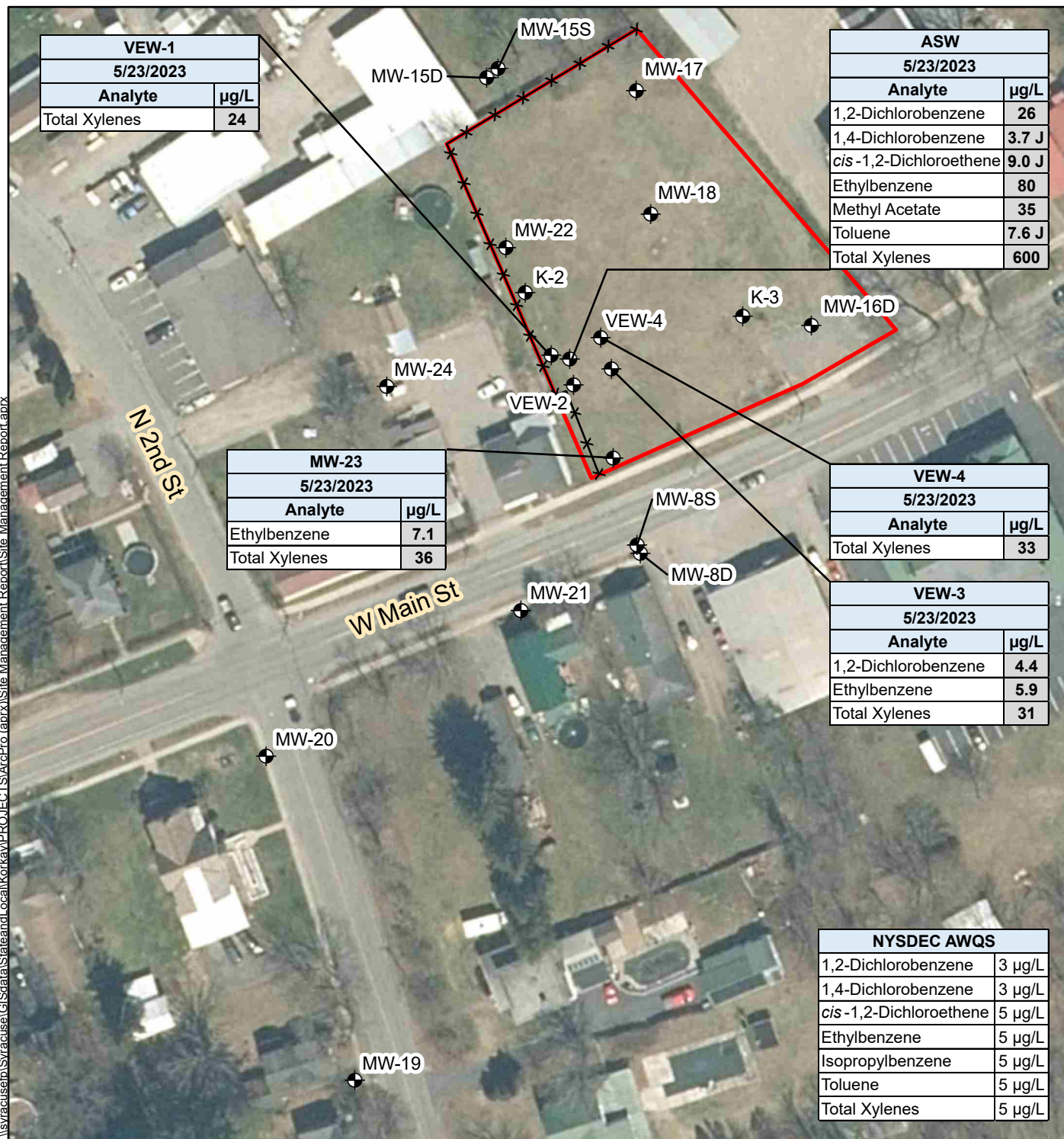
0 1,000 2,000
Feet



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Legend

- Site Boundary
- Fence Line
- Monitoring Well

Notes:

µg/L = micrograms per liter
AWQS = Ambient Water Quality Standards
J = Detected but below the Reporting Limit; therefore, result is an estimated concentration.
NYSDEC = New York State Department of Environmental Conservation
VOC = volatile organic compound

Figure 5
Volatile Organic Compound Exceedances
Korkay Inc.
Broadalbin, New York

Map Date: 10/10/2023
Projection: NAD 1983 (2011) State Plane
New York East FIPS 3101 (US Feet)
Source:



Department of
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Legend

Site Boundary

Fence Line

Monitoring Well

Notes:

E = Reported result is estimated.

Value reported over verified calibration range.

ng/L = nanograms per liter

NYSDEC = New York State Department of

Environmental Conservation

PFAS = per- and polyfluorinated alkyl substances

PFOA = perfluorooctanoic acid

PFOS = perfluorooctanesulfonic acid

Figure 6 Per- and Polyfluoroalkyl Substances Exceedances

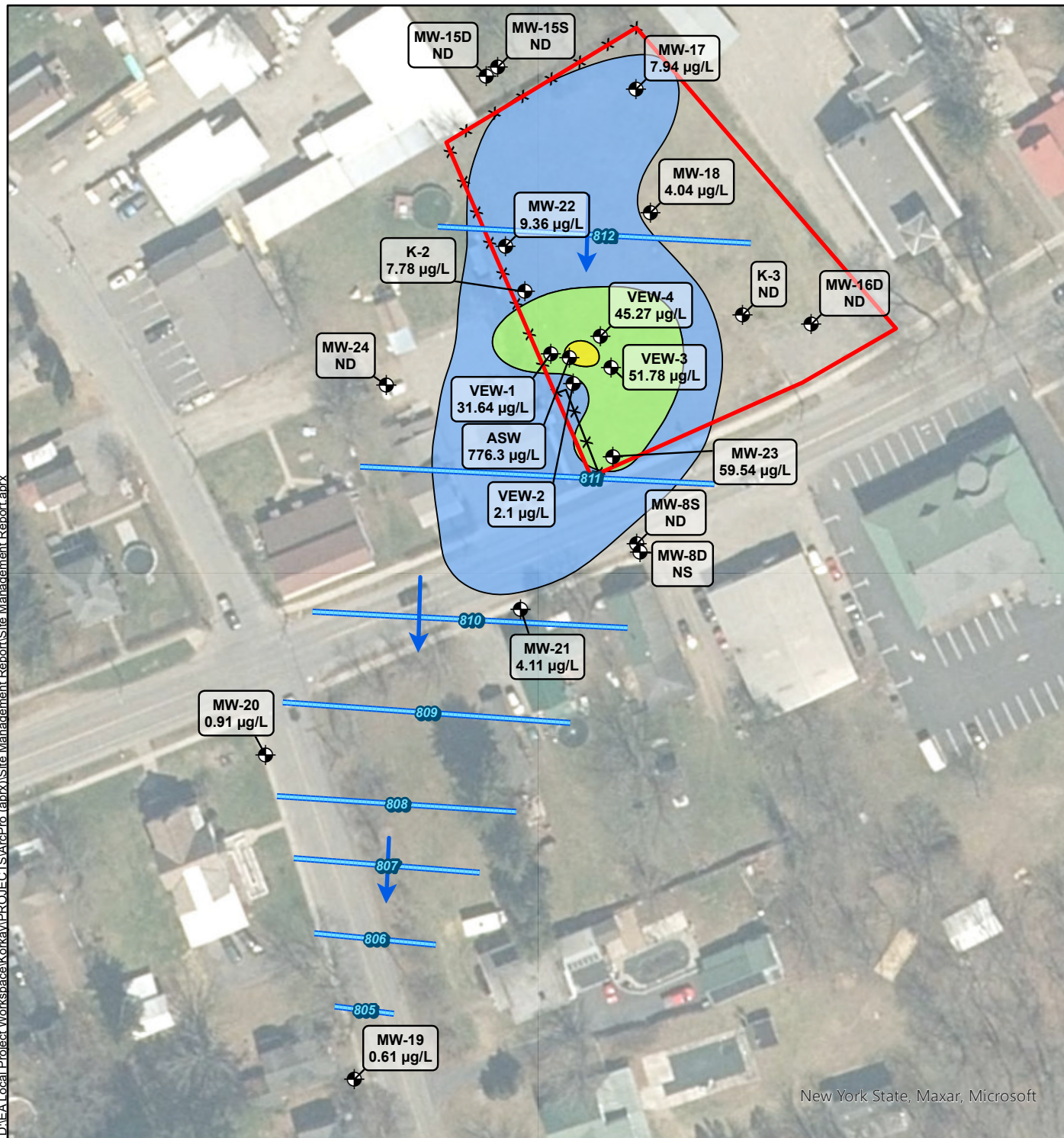
Korkay Inc.
Broadalbin, New York

Map Date: 10/10/2023
Projection: NAD 1983 (2011) State Plane
New York East FIPS 3101 (US Feet)
Source:



Department of
Environmental
Conservation





New York State, Maxar, Microsoft



Legend

- Monitoring Well
- Fence Line
- Site Boundary
- Groundwater Flow Direction
- Groundwater Elevation Contour (1 ft)

- Total VOC Concentration**
- 5 ug/L to 10 ug/L
 - 10 ug/L to 100 ug/L
 - 100 ug/L to 1,000 ug/L

Figure 7
Total VOC Isoconcentration
Korkay Inc.
Broadalbin, New York

Map Date: 8/26/2024
Projection: NAD 1983 (2011) State Plane
New York East FIPS 3101 (US Feet)
Source:

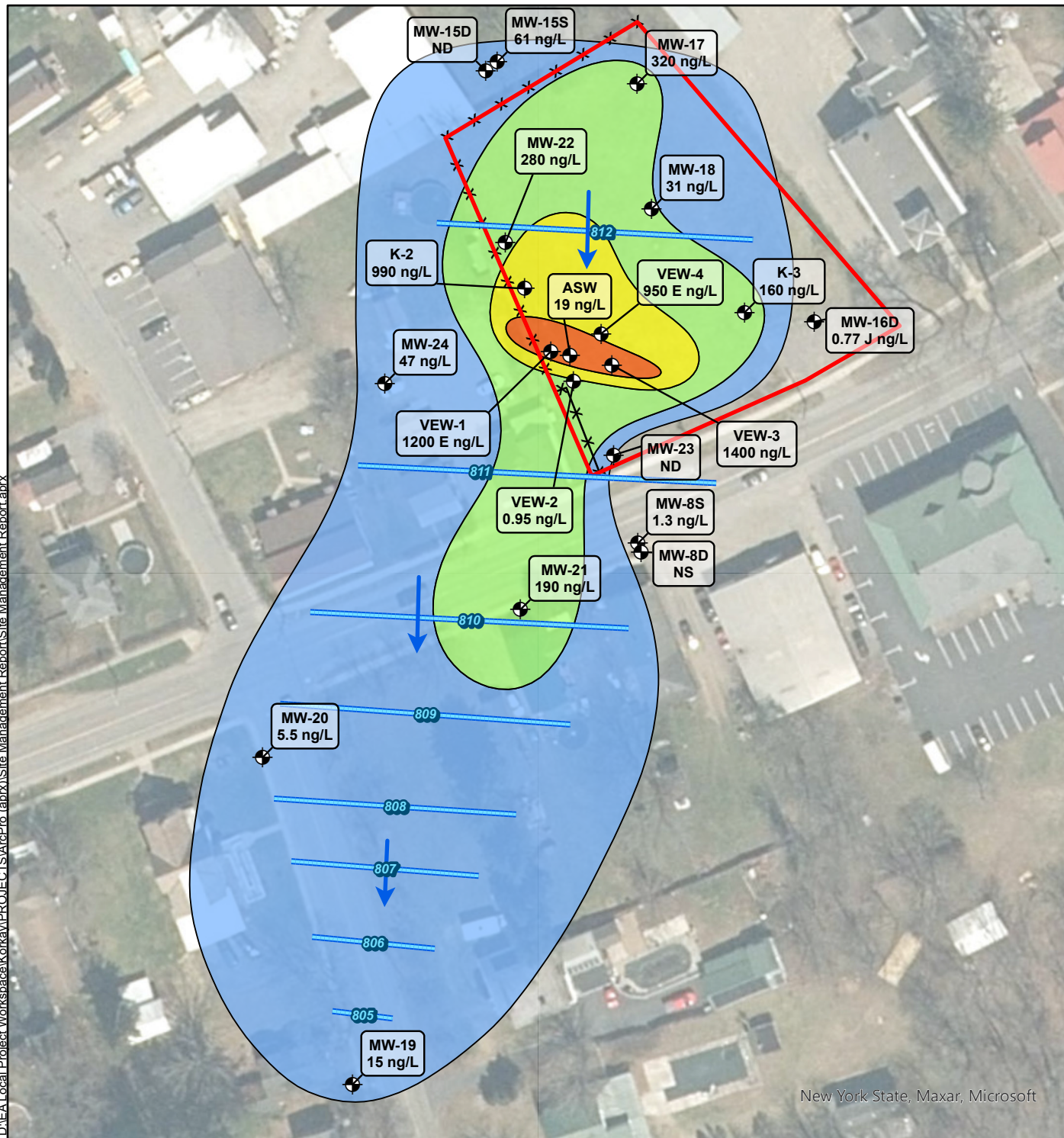
0 50 100
Feet

Notes:
µg/L = micrograms per liter
ND = non-detect
NS = not sampled
VOC = volatile organic compound



Department of
Environmental
Conservation





New York State, Maxar, Microsoft



Legend

- Monitoring Well
- Fence Line
- Site Boundary
- Groundwater Flow Direction
- Groundwater Elevation Contour (1 ft)

Total PFOS Concentration

- 2.7 ug/L to 100 ug/L
- 100 ug/L to 500 ug/L
- 500 ug/L to 1000 ug/L
- >1000 ug/L color swatch"/> >1000 ug/L

Notes:

ug/L = micrograms per liter
 E = reported result is estimated. Value reported over verified calibration range.
 J = Detected but below the Reporting Limit; therefore, result is an estimated concentration.
 ND = non-detect
 NS = not sampled
 PFOS = perfluorooctanesulfonic acid

0 50 100
 Feet

NI



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Figure 8
PFOS Isoconcentration
 Korkay Inc.
 Broadalbin, New York

Map Date: 8/26/2024
 Projection: NAD 1983 (2011) State Plane
 New York East FIPS 3101 (US Feet)
 Source:

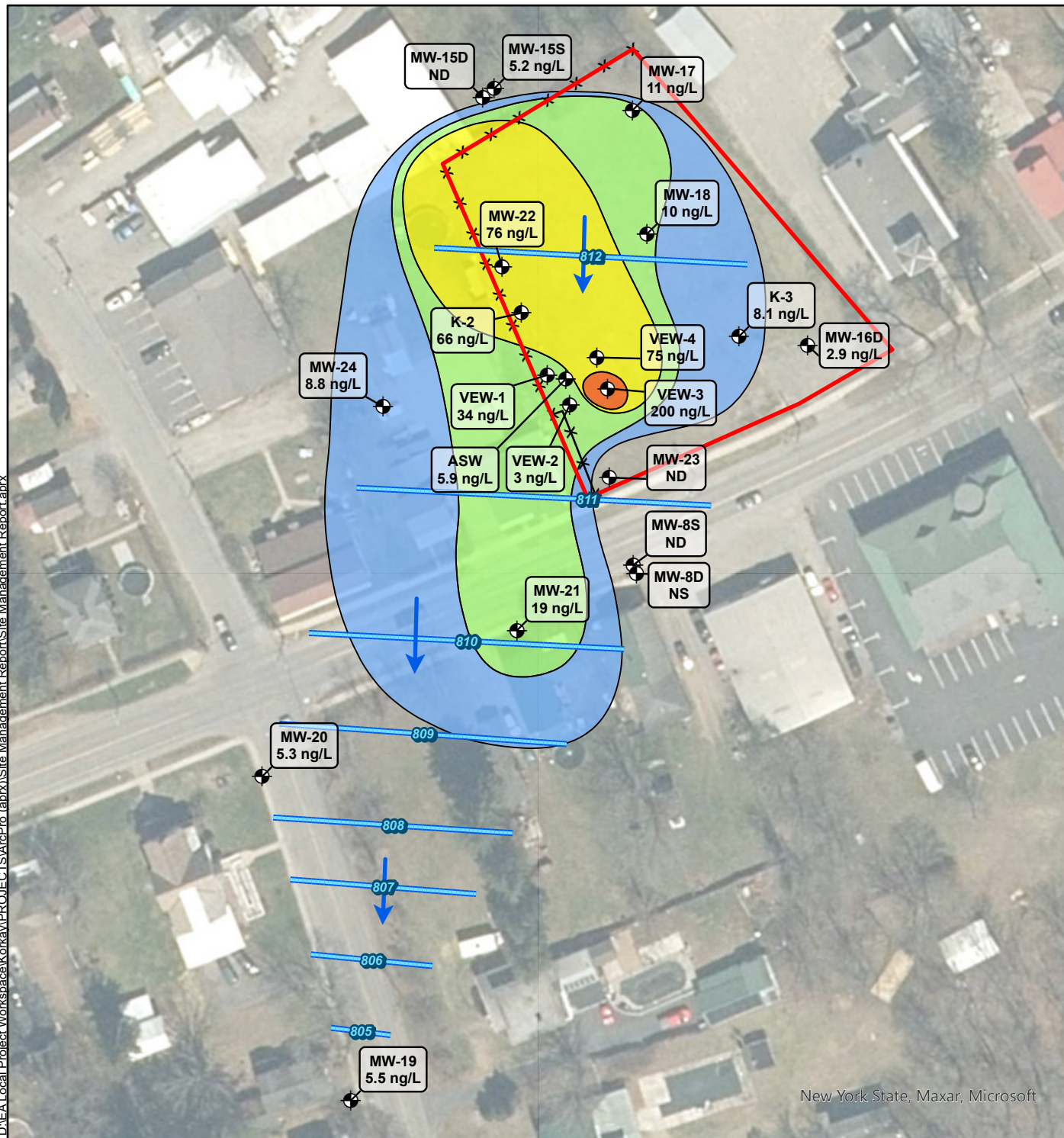


Figure 9
PFOA Isoconcentration
Korkay Inc.
Broadalbin, New York

Map Date: 8/26/2024
Projection: NAD 1983 (2011) State Plane
New York East FIPS 3101 (US Feet)
Source:



Department of
Environmental
Conservation



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Appendix A

Daily Field Reports

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DAILY INSPECTION REPORT
(Korkay), Site No. 518014

Page 1 of 6
Date: 05/23/2023

NYSDEC Division of Environmental Remediation		 NEW YORK STATE		Department of Environmental Conservation		Contract No. D009806 DEC PM – J. Stefansky Engineer PM – J. Oliver Engineer Insp. – N. Robinson	
Site Location: 70 West Main St. Broadalbin, NY 12025							
Weather Conditions							
General Description	Partly Cloudy	AM	Sunny	PM			
Temperature	50 F	AM	70	PM			
Wind	SW 5 MPH	AM	SW 10 MPH	PM			
Health & Safety If any box below is checked "Yes", provide explanation under "Health & Safety Comments".							
Were there any changes to the Health & Safety Plan?					*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?					*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?					*Yes	No X	NA
Health & Safety Comments Heavy traffic along West Street. Use caution and cones when sampling in right of ways.							
Summary of Work Performed		Arrived at site:	0730	Departed Site:	1830		
N. Robinson, H. Young and L. Casey arrive on site (0730). EA begins calibrating field equipment, Horibas and PIDs (0732). N. Robinson provide safety briefing (0735). EA begin purging wells and collect 17 parent samples, 1 duplicate sample, 1 MS/MSD sample, 1 field blank and 1 equipment blanks. EA collects samples from the following wells ASW, MW-23, VEW-3, VEW-2, VEW-4, VEW-1, K-2, MW-18, MW-22 w/ MS/MSD, MW-17, K-3, MW-15S, MW-21. MW-24 w/ Duplicate, MW-8S, MW-20 and MW-19. N. Robinson spoke with property owner about an updated access agreement and received an updated signed copy. EA will complete the remaining 3 wells, 3 sediment and 3 surface water samples tomorrow. EA will demob.							
Equipment/Material Tracking If any box below is checked "Yes", provide explanation under "Material Tracking Comments".							
Were there any vehicles which did not display proper D.O.T numbers and placards?					*Yes	No X	NA
Were there any vehicles which were not tarped?					* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?					* Yes	No	NA X
Personnel and Equipment							
Individual		Company		Trade		Total Hours	
Noah Robinson		EA		Scientist		11	
Haley Young		EA		Scientist		11	
Liam Casey		EA		Scientist		11	
Equipment Description		Contractor/Vendor			Quantity	Used	
PID		Pine Environmental			2	2	
Peristatic Pump		Pine Environmental			2	2	
Horiba U-52		Pine Environmental			2	2	
Water Level Meter		Pine Environmental			2	2	
Material Description		Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
Equipment/Material Tracking Comments:							
Visitors to Site							
Name		Representing			Entered Exclusion/CRZ Zone		
					Yes	No	
					Yes	No	

DAILY INSPECTION REPORT
(Korkay), Site No. 518014

Page 2 of 6
Date: 05/23/2023

Site Representatives	
Name	Representing
Property owner	Address redacted
Project Schedule Comments	
None.	
Issues Pending	
• None	
Interaction with Public, Property Owners, Media, etc.	
Interaction with property owner at redacted address asking about a report and information for the site. EA directed property owner to NYSDEC website.	



Include (insert) figures with markups showing location of work and job progress

[illegible]

DAILY INSPECTION REPORT
(Korkay), Site No. 518014

Page 4 of 6
Date: 05/23/2023

WELL MONITORING TABLE: N/A

Well ID	DTW	DTB	Notes
518014-ASW			
518014-MW-23			
518014-VEW-3			
518014-VEW-2			
518014-VEW-4			
518014-VEW-1			
518014-K-2			
518014-MW-18			
518014-MW-22			MS/MSD
518014-MW-17			
518014-K-3			
518014-MW-15S			
518014-MW-21			
518014-MW-24			Duplicate
518014-MW-8S			
518014-MW-20			
518014-MW-19			

Site Inspector(s): Noah Robinson

Date: 5/23/23

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work?

Yes ☐ No ☐ N/A ☒



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REMEDIAL ACTIVITIES AT PROPERTIES

1. Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes ☐	No ☒
2. Have anyone at this location been tested and confirmed to have COVID-19?	Yes ☐	No ☒
3. Were personal protective gloves, masks, and eye protection being used?	Yes ☐	No ☒
4. Does the Department and its contractors have your permission to enter the property at this time?	Yes ☐	No ☐
5. If Yes to 1 or 2, follow the latest NYSDOH COVID-19 guidance: https://coronavirus.health.ny.gov/home	Yes ☐	No ☐
Comments: N/A		

ON-SITE WASTE STORAGE

Drums, roll offs and piles are staged in secure areas?	Yes ☐	No ☐	N/A ☒
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A ☒
Containers are in good condition or properly overpacked?	Yes ☐	No ☐	N/A ☒
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A ☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☐	No ☐	N/A ☒
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A ☒
Containers are closed when not in use?	Yes ☐	No ☐	N/A ☒
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☐	No ☐	N/A ☒
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☐	No ☐	N/A ☒
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A ☒
Comments:			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A ☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A ☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A ☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☐	N/A ☒
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☐	N/A ☒
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A ☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A ☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☐	N/A ☒

DAILY INSPECTION REPORT
(Korkay), Site No. 518014

Page 6 of 6
Date: 05/23/2023

Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A ☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A ☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A ☒
<u>Comments:</u> N/A			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A ☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A ☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A ☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A ☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A ☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A ☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A ☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A ☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A ☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A ☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A ☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A ☒
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☐	No ☐	N/A ☒
<u>Comments:</u> N/A			

* BART – Best Available Retrofit Technology

DAILY INSPECTION REPORT
(Korkay), Site No. 518014

Page 1 of 6
Date: 05/24/2023

NYSDEC Division of Environmental Remediation		 NEW YORK STATE		Department of Environmental Conservation		Contract No. D009806 DEC PM – J. Stefansky Engineer PM – J. Oliver Engineer Insp. – N. Robinson	
Site Location: 70 West Main St. Broadalbin, NY 12025							
Weather Conditions							
General Description	Partly Cloudy	AM	Overcast	PM			
Temperature	50 F	AM	68	PM			
Wind	SW 5 MPH	AM	SW 10 MPH	PM			
Health & Safety If any box below is checked "Yes", provide explanation under "Health & Safety Comments".							
Were there any changes to the Health & Safety Plan?					*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?					*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?					*Yes	No X	NA
Health & Safety Comments Heavy traffic along West Street. Use caution and cones when sampling in right of ways.							
Summary of Work Performed		Arrived at site:	0730	Departed Site:	1500		
N. Robinson, H. Young and L. Casey arrive on site (0730). EA begins calibrating field equipment, Horibas and PIDs (0737). N. Robinson provide safety briefing (0740). EA begin purging remaining wells and collect 2 parent samples EA collect samples from the following MW-16D and MW-15D. EA attempted to sample MW-8D but there was an obstruction 25-30 feet that was preventing the bladder pump or tubing. EA collected SW-02/SD-02 w/ duplicate and MS/MSD for surface water and sediment, SW-01/SD-01 and SW-03/SD-03. EA offsite to deliver coolers to Pace Analytical.							
Equipment/Material Tracking If any box below is checked "Yes", provide explanation under "Material Tracking Comments".							
Were there any vehicles which did not display proper D.O.T numbers and placards?					*Yes	No X	NA
Were there any vehicles which were not tarped?					* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?					* Yes	No	NA X
Personnel and Equipment							
Individual		Company		Trade		Total Hours	
Noah Robinson		EA		Scientist		7.5	
Haley Young		EA		Scientist		7.5	
Liam Casey		EA		Scientist		7.5	
Equipment Description		Contractor/Vendor			Quantity	Used	
PID		Pine Environmental			2	2	
Peristatic Pump		Pine Environmental			2	2	
Horiba U-52		Pine Environmental			2	2	
Water Level Meter		Pine Environmental			2	2	
QED Bladder		Pine Environmental			1	1	
Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)		Daily Loads	Daily Weight (tons)*
Equipment/Material Tracking Comments:							
Visitors to Site							
Name		Representing			Entered Exclusion/CRZ Zone		
					Yes		No
					Yes		No

DAILY INSPECTION REPORT
(Korkay), Site No. 518014

Page 2 of 6
Date: 05/24/2023

Site Representatives	
Name	Representing
None	
Project Schedule Comments	
None.	
Issues Pending	
• None	
Interaction with Public, Property Owners, Media, etc.	
None	



Include (insert) figures with markups showing location of work and job progress

[illegible]

DAILY INSPECTION REPORT
(Korkay), Site No. 518014

Page 4 of 6
Date: 05/24/2023

WELL MONITORING TABLE: N/A

Well ID	DTW	DTB	Notes
518014-MW-16D			
518014-MW-15D			
518014-SW-02			Duplicate and MS/MSD
518014-SD-02			Duplicate and MS/MSD
518014-SW-01			
518014-SD-01			
518014-SW-03			
518014-SD-03			

Site Inspector(s): Noah Robinson

Date: 5/24/23

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work?

Yes ☐ No ☐ N/A ☒



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REMEDIAL ACTIVITIES AT PROPERTIES

1. Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes ☐	No ☒
2. Have anyone at this location been tested and confirmed to have COVID-19?	Yes ☐	No ☒
3. Were personal protective gloves, masks, and eye protection being used?	Yes ☐	No ☒
4. Does the Department and its contractors have your permission to enter the property at this time?	Yes ☐	No ☐
5. If Yes to 1 or 2, follow the latest NYSDOH COVID-19 guidance: https://coronavirus.health.ny.gov/home	Yes ☐	No ☐
Comments: N/A		

ON-SITE WASTE STORAGE

Drums, roll offs and piles are staged in secure areas?	Yes ☐	No ☐	N/A ☒
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A ☒
Containers are in good condition or properly overpacked?	Yes ☐	No ☐	N/A ☒
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A ☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☐	No ☐	N/A ☒
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A ☒
Containers are closed when not in use?	Yes ☐	No ☐	N/A ☒
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☐	No ☐	N/A ☒
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☐	No ☐	N/A ☒
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A ☒
Comments:			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A ☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A ☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A ☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☐	N/A ☒
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☐	N/A ☒
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A ☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A ☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☐	N/A ☒

DAILY INSPECTION REPORT
(Korkay), Site No. 518014

Page 6 of 6
Date: 05/24/2023

Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A ☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A ☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A ☒
<u>Comments:</u> N/A			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A ☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A ☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A ☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A ☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A ☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A ☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A ☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A ☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A ☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A ☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A ☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A ☒
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☐	No ☐	N/A ☒
<u>Comments:</u> N/A			

* BART – Best Available Retrofit Technology

Appendix B

Field Forms

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CHAIN OF CUSTODY RECORD (New York)

1800 Elm Street SE
Minneapolis, MN 55414

Page 1 of 4

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: EA Engineering
Address: 264 W. Jefferson St. Syracuse, NY 13202
Phone: 207-400-1356

Project Name: Kerkay
Project Location: Broadalbin, NY
Project Number: 1625034/10 1602534/011/B
Project Manager: Josh Oliver
Pace Analytical Quote Name/Number
Invoice Recipient:

Sampled By: Nisha Robinson

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	8260 ASD ECL	8270 ASD ECL	9081	1-4 Dioxane SPM	PfAS 1633
	518014-MW-23	5/23/23	0833		✓	GW	U	✓	✓	✓	✓	✓
	518014-ASW	5/23/23	0838		✓	GW	U	✓	✓	✓	✓	✓
	518014-VEW-2	5/23/23	0941		✓	GW	U	✓	✓	✓	✓	✓
	518014-VEW-3	5/23/23	0945		✓	GW	U	✓	✓	✓	✓	✓
	518014-VEW-4	5/23/23	0945		✓	GW	U	✓	✓	✓	✓	✓
	518014-VEW-1	5/23/23	1107		✓	GW	U	✓	✓	✓	✓	✓
	518014-K-2	5/23/23	1200		✓	GW	U	✓	✓	✓	✓	✓
	518014-MW-1B	5/23/23	1211		✓	GW	U	✓	✓	✓	✓	✓
	518014-MW-22	5/23/23	1305		✓	GW	U	✓	✓	✓	✓	✓
	518014-MW-22-MS	5/23/23	1305		✓	GW	U	✓	✓	✓	✓	✓

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

of Containers

2 Preservation Code

3 Container Code

Dissolved Metals Samples

☐ Field Filtered

☐ Lab to Filter

Orthophosphate Samples

☐ Field Filtered

☐ Lab to Filter

1 Matrix Codes:

GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

2 Preservation Codes:

I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

3 Container Codes:

A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

PCB ONLY

☐ Soxhlet
☐ Non Soxhlet

Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information

- ☐ AWQ STDs ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375

Other:

Project Entity

- ☒ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA



Other:

NYAC Inc. AIHA-LAP, LLC Accredited

Deliverables

- ☐ Enhanced Data Package
☒ NYSDEC EQUS EDD
☐ EQUS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD

Other

- ☐ Chromatogram
☐ AIHA-LAP, LLC

CHAIN OF CUSTODY RECORD (New York)

1800 Elm Street SE
Minneapolis, MN 55414

Page 2 of 4

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name:

Address:

Phone:

Project Name:

Project Location:

Project Number:

Project Manager:

Pace Analytical Quote Name/Number

Invoice Recipient:

Sampled By:

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	8260 ASD ECL	8270 ASD ECL	8081	1-4 Dioxane SW	PFAS 1633	PFAS 1633
	518014 - MW-22-MSD	5/23/13	1305		✓	GW	U	✓	✓	✓	✓	✓	
	518014 - MW-17	5/23/13	1326		✓	GW	U	✓	✓	✓	✓	✓	
	518014 - K-3	5/23/13	1430		✓	GW	U	✓	✓	✓	✓	✓	
	518014 - MW-15S	5/23/13	1433		✓	GW	U	✓	✓	✓	✓	✓	
	518014 - MW-21	5/23/13	1543		✓	GW	U	✓	✓	✓	✓	✓	
	518014 - MW-24	5/23/13	1554		✓	GW	U	✓	✓	✓	✓	✓	
	518014 - MW-28S	5/23/13	1656		✓	GW	U	✓	✓	✓	✓	✓	
	518014 - DUP-1-GW	5/23/13	—		✓	GW	U	✓	✓	✓	✓	✓	
	518014 - MW-20	5/23/13	1716		✓	GW	U	✓	✓	✓	✓	✓	
	518014 - FB-052333	5/23/13	1725		✓	W	U						

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

of Containers

² Preservation Code³ Container Code

Dissolved Metals Samples

- ☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples

- ☐ Field Filtered
☐ Lab to Filter

¹ Matrix Codes:

GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil
 SL = Sludge
 SOL = Solid
 O = Other (please define)

² Preservation Codes:

I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium Thiosulfate
 O = Other (please define)

³ Container Codes:

A = Amber Glass
 G = Glass
 P = Plastic
 ST = Sterile
 V = Vial
 S = Summa Canister
 T = Tedlar Bag
 O = Other (please define)

PCB ONLY

- ☐ Soxhlet
☐ Non Soxhlet

Program & Regulatory Information

- ☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375

Other:

Project Entity

- ☒ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA



Other:

INLAB and ANALAB, LLC Accredited

Deliverables

- ☐ Enhanced Data Package
☒ NYSDEC EQUIS EDD
☐ EQUIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD

Other:

- ☐ Chromatogram
☐ AIHA-LAP, LLC

Relinquished by: (signature)

Date/Time:

Received by: (signature)

Date/Time:

Relinquished by: (signature)

Date/Time:

Received by: (signature)

Date/Time:

Relinquished by: (signature)

Date/Time:

Received by: (signature)

Date/Time:

Contact: <https://www.pacelabs.com/contact-us/contact-environmental-sciences/>

Company Name: [Redacted]
Address: [Redacted]
Phone: [Redacted]
Project Name: [Redacted]
Project Location: [Redacted]
Project Number: [Redacted]
Project Manager: [Redacted]
Pace Analytical Quote Name/Number: [Redacted]
Invoice Recipient: [Redacted]
Sampled By: [Redacted]

CHAIN OF CUSTODY RECORD (New York)

Requested Turnaround Time
7-Day ☐ 10-Day ☒
Due Date: [Redacted]

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☐ EXCEL ☐
Other: [Redacted]
CLP Like Data Pkg Required: ☐
Email To: [Redacted]
Fax To #: [Redacted]

2	2	2	2	3	2	1	2	1	1	
H	I	I	I	I	I	B	M	I		
V	A	A	A	P	P	P	V	V	A	
ANALYSIS REQUESTED										
8260 ASDPCTU	8270 ASDPCTU	8081	1,4-Dioxane sin	PFAS 1633	PFAS 1633	PFAS 1633	8260	8260	1,4-Dioxane, TC, 8081, 8270	

of Containers: [Redacted]
Preservation Code: [Redacted]
Container Code: [Redacted]

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

Pace Analytical Work Order#	Client Sample ID/Description	Beginning Date/Time	Ending Date/Time	Composites	Grab	Matrix Code	Conc Code
	518014-EB-052323	5/23/23	1730		✓	W	✓
	518014-MW-19	5/23/23	1750		✓	GW	U
	518014-MW-160	5/24/23	0819		✓	GW	U
	518014-MW-15B	5/24/23	0855		✓	GW	U
	518014-SW-02	5/24/23	1135		✓	SW	U
	518014-SW-02-MS	5/24/23	1135		✓	SW	U
	518014-SW-02-MSD	5/24/23	1135		✓	SW	U
	518014-SD-02	5/24/23	1150		✓	S	U
	518014-SD-02-MSD	5/24/23	1150		✓	S	U
	518014-SD-02-MS	5/24/23	1150		✓	S	U

1 Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

2 Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

3 Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) [Signature] Date/Time: 5/24/23 1530
Received by: (signature) [Signature] Date/Time: 5-24-23 1530
Relinquished by: (signature) [Signature] Date/Time: [Redacted]
Received by: (signature) [Signature] Date/Time: [Redacted]
Relinquished by: (signature) [Signature] Date/Time: [Redacted]
Received by: (signature) [Signature] Date/Time: [Redacted]

Program & Regulatory Information

☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375

Other: [Redacted]

Project Entity

☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA



Deliverables

☐ Enhanced Data Package
☐ NYSDEC EQUIS EDD
☐ EQUIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD

Other: [Redacted]

NEAC and AIHA-LAP / ILC are required

Other

☐ Chromatogram
☐ AIHA-LAP, LLC

PCB ONLY

☐ Soxhlet
☐ Non Soxhlet

CHAIN OF CUSTODY RECORD (New York)

1800 Elm Street SE
Minneapolis, MN 55414Page 4 of 4Contact: <https://www.pacelabs.com/contact-us/contact-environmental-sciences/>Company Name: [REDACTED]Address: [REDACTED]Phone: [REDACTED]Project Name: Sample as per 1Project Location: [REDACTED]Project Number: [REDACTED]Project Manager: [REDACTED]Pace Analytical Quote Name/Number: [REDACTED]Invoice Recipient: [REDACTED]Sampled By: [REDACTED]

Pace Analytical Work Order#	Client Sample ID/Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	7-Day	10-Day	Due Date:	1-Day	3-Day	2-Day	4-Day	Format: PDF	EXCEL	Other:	CLP Like Data Pkg Required:	Email To:	Fax To #:
	518014-SW-01	5/24/23	1225		✓	SW	U	✓	✓		✓	✓	✓	✓	✓	✓				
	518014-SD-01	5/24/23	1235		✓	S	U													
	518014-FB-052423	5/24/23	1250		✓	W	C													
	518014-FB-052423	5/24/23	1255		✓	W	C													
	518014-FD-01-SW	5/24/23	—		✓	SW	U	✓	✓		✓	✓	✓	✓	✓	✓				
	518014-FD-01-SD	5/24/23	—		✓	S	U													
	518014-SW-03	5/24/23	1345		✓	SW	U	✓	✓		✓	✓	✓	✓	✓	✓				
	518014-SD-03	5/24/23	1355		✓	S	U	✓	✓		✓	✓	✓	✓	✓	✓				

Comments: [REDACTED]

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) [Signature]Date/Time: 5/24/23 1550Received by: (signature) [Signature]Date/Time: 5-24-23 1530Relinquished by: (signature) [Signature]Date/Time: [REDACTED]Received by: (signature) [Signature]Date/Time: [REDACTED]Relinquished by: (signature) [Signature]Date/Time: [REDACTED]Received by: (signature) [Signature]Date/Time: [REDACTED]

Program & Regulatory Information

- ☐ AWQ STDs ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375

Other: [REDACTED]

Project Entity

- ☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other: [REDACTED]

NYSDEC and AHA-LAP, LLC are required

Deliverables

- ☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD

Other: [REDACTED]

- ☐ Chromatogram
☐ AHA-LAP, LLC

of Containers: 4Preservation Code: IContainer Code: I

Dissolved Metals Samples

- ☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples

- ☐ Field Filtered
☐ Lab to Filter

1 Matrix Codes:

GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil
 SL = Sludge
 SOL = Solid
 O = Other (please define)

2 Preservation Codes:

I = Iced
 H = HCL
 M = Methanol
 N = Nitric Acid
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 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium Thiosulfate
 O = Other (please define)

3 Container Codes:

A = Amber Glass
 G = Glass
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 ST = Sterile
 V = Vial
 S = Summa Canister
 T = Tedlar Bag
 O = Other (please define)

PCB ONLY

- ☐ Soxhlet
☐ Non Soxhlet

MONITORING WELL GAUGING LOG

Inspector(s): N. Robinson

Weather Conditions:

Site Name: Korkay Inc.

Date/Time: 5/24/2023

Well ID	PID Reading (ppm)	DTW (ft. below TOC)	DTB (ft. below TOC)	Well Condition / Notes
ASW	13.3	5.94	11.67	Good
VEW-1	1.7	5.52	8.14	Good
VEW-2	0.2	5.68	8.56	Good
VEW-3	0.5	6.25	8.48	Good
VEW-4	0.8	5.89	8.25	Good
K-2	0.1	5.34	14.23	Good
K-3	0.0	5.61	10.54	Good
MW-8D	0	27.4	55.2	Partial well block ~30ft. Not able to be sampled without removing blockage.
MW-8S	0.0	5.61	10.59	Good
MW-15D	0	24.82	40.04	Good
MW-15S	0.0	3.7	9.9	Good
MW-16D	0.0	28.51	54.8	Good
MW-17	8.7	3.86	14.44	Good
MW-18	0.7	5	14.48	Good
MW-19	0.8	5.18	9.75	Good
MW-20	0.0	5.41	13.17	Good
MW-21	0.1	6.08	11.18	Good
MW-22	0.4	3.87	9.25	Good
MW-23	1.1	6.1	14.29	Good
MW-24	1.2	6.32	11.22	Good

FIELD CALIBRATION FORM

Site Name: Korkay

[illegible]

FIELD CALIBRATION FORM

Site Name: Korkay

[illegible]

FIELD CALIBRATION FORM

Site Name: Korkay

[illegible]

FIELD CALIBRATION FORM

Site Name:

INSTRUMENT:	MInRAE 3000	INSTRUMENT ID No.	25564	
OPERATOR:	HV	WEATHER:	Sunny	
SPAN GAS TYPE:	isobutylene	DATE:	5/28/23	
CALIBRATION NOTES:				
Zero Cal : 0.0 ppm				
Span Cal : 100.6 ppm				
COMMENTS:				
SIGNATURE:				DATE:

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 5/23/23
TIME: 0745
METER ID: 21210

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	5.21	3.98

CONDUCTIVITY CALIBRATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.79	4.54

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	9.4	0.3

COMMENTS

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 5/23/23
TIME: 0734
METER ID: 21210

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	5.69	4.03

CONDUCTIVITY CALIBRATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	~~3.20~~ 3.65	4.49

LL
TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	180	0

COMMENTS

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 5/23/23
TIME: 0740
METER ID: 51866

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	6.44	3.96

CONDUCTIVITY CALIBRATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	5.39	4.51

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	4.7	0.7

COMMENTS

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 5/23/23
TIME: 0730
METER ID: 51866

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	5.24	3.94

CONDUCTIVITY CALIBRATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.03	4.48

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	9.3	8.9

COMMENTS

SIGNATURE



WELL PURGING AND SAMPLING RECORD

Site Name/Location	Korkay / Broadalbin, NY	Project No:	518014	Page	1	of	1
Well ID	MW-16D	Date	5/24/23	Time	0745		
Well Site Description	pavement @ entrance of onsite area						
Weather/Temp	Sunny, 58°F						
Field Technician	H. Young						

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	Screened Interval (ft bgs)
Well Diameter (in.) 2	Nominal Borehole Diameter (in.)

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 54.54	Gallons per foot of depth 0.163
Depth to product (ft) —	Static water level (ft) 30.86
Product column height (ft) —	Water column height (ft) 23.68
Product volume (Gallons) —	Water volume (Gallons) 3.86

PURGE INFORMATION

Pump Type / ID	peri pump / 25465	Water Quality Meter Type / ID	Horiba V-S2 / 51866
Pump Intake Depth (ft)	~ 49 ft	Flow-Thru Cell Volume (L)	1L
Purge Start Time	0749	Appearance/Odor (Start)	clear / odorless
Purge End Time	0940	Appearance/Odor (End)	clear / odorless
Average Purge Rate (mL/min)	0.25	Total Drawdown (ft)	—
Well Went Dry (Y/N)	(N)	Stop Time	—
Recovery Time	—	Recovery Rate (mL/min)	—
Total Volume Removed (L)	27.75	Volume removed (L)	—
		Restart Purge Time	—
		Total Pump Time (min)	111

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+/- 3%)	Temp. (°C) (+/- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
5/24	0749	0.25	—	10.44	0.715	14.32	44	34.6	1.15	—
5/24	0754	0.25	1.25	11.75	0.736	13.68	-28	33.1	0.70	—
5/24	0759	0.25	2.50	11.79	0.743	13.57	-49	21.9	0.81	—
5/24	0804	0.25	3.75	11.79	0.743	13.62	-59	18.5	0.81	—
5/24	0809	0.25	5.00	11.78	0.744	13.69	-63	14.2	0.80	—
5/24	0814	0.25	6.25	11.78	0.747	13.72	-67	15.8	0.83	—
5/24	0819	0.25	7.75	11.78	0.748	13.80	-69	16.0	0.81	—
SAMPLE @ 0819										

COMMENTS PID: 0.0 ppm * DTW/DTB taken after sampling.

SAMPLE COLLECTION

Sample Date	5/24/23	Sample Time	0819
Sample ID	518014-MW-16D		
QA/QC Collected / ID	N/A	Sample Appearance/Odor	clear / odorless
Analyses	PFAS, VOCs, SVOCs, Pesticides + 1,4-Dioxane		
Sampler	H. Young	Signature	



WELL PURGING AND SAMPLING RECORD

Site Name/Location	Korkay / Broadalbin, NY	Project No:	518014	Page	1 of 1
Well ID	MW-20	Date	5/23/23	Time	1640
Well Site Description	Sidewalk on intersection of Second Ave + W. Main St.				
Weather/Temp	Sunny, 74°F				
Field Technician	H. Young				

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	Screened Interval (ft bgs)
Well Diameter (in.) 2	Nominal Borehole Diameter (in.)

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 13.17	Gallons per foot of depth 0.163
Depth to product (ft) —	Static water level (ft) 6.24
Product column height (ft) —	Water column height (ft) 6.93
Product volume (Gallons) —	Water volume (Gallons) 1.13

PURGE INFORMATION

Pump Type / ID	pen pump / 25465	Water Quality Meter Type / ID	Hanba V-52 / 518066
Pump Intake Depth (ft)	~11 ft	Flow-Thru Cell Volume (L)	1L
Purge Start Time	1641	Appearance/Odor (Start)	clear/odorless
Purge End Time	1731	Appearance/Odor (End)	clear/odorless
Average Purge Rate (mL/min)	0.25	Total Drawdown (ft)	—
Well Went Dry (Y/N)	Y	Stop Time	—
Recovery Time	—	Recovery Rate (mL/min)	—
Total Volume Removed (L)	12.50	Volume removed (L)	—
		Restart Purge Time	—
		Total Pump Time (min)	50

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+/- 3%)	Temp. (°C) (+/- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
5/23	1641	0.25	—	6.63	4.47	13.82	94	50.3	12.93	—
5/23	1646	0.25	1.25	6.85	4.26	13.24	99	0.0	9.42	—
5/23	1651	0.25	2.50	6.92	4.14	13.05	107	0.0	8.57	—
5/23	1656	0.25	3.75	6.88	4.34	13.55	116	0.0	8.08	—
5/23	1701	0.25	5.00	6.88	4.38	13.56	120	0.0	7.83	—
5/23	1706	0.25	6.25	6.90	4.34	13.31	121	0.0	7.60	—
5/23	1711	0.25	7.50	6.93	4.35	13.42	121	0.0	7.32	—
5/23	1716	0.25	8.75	6.95	4.30	13.46	122	0.0	7.27	—
SAMPLE @ 1716										

COMMENTS PID: 0.0 ppm * DTW/DTB taken after sampling

SAMPLE COLLECTION

Sample Date	5/23/23	Sample Time	1716
Sample ID	518014-MW-20		
QA/QC Collected / ID	N/A	Sample Appearance/Odor	clear/odorless
Analyses	PFAS, VOCs, STOCs, Pesticides, 1,4-Dioxane		
Sampler	H. Young	Signature	H. Young



WELL PURGING AND SAMPLING RECORD

Site Name/Location	Korkay Broadalbin, NY	Project No:	518014	Page	1 of 1
Well ID	MW-24	Date	5/23/23	Time	1505
Well Site Description	pavement behind property N of W. Main St.				
Weather/Temp	Sunny, 72°F				
Field Technician	H. Young				

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	Screened Interval (ft bgs)
Well Diameter (in.)	2
Nominal Borehole Diameter (in.)	

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	11.22	Gallons per foot of depth	0.163
Depth to product (ft)	—	Static water level (ft)	6.29
Product column height (ft)	—	Water column height (ft)	4.93
Product volume (Gallons)	—	Water volume (Gallons)	0.804

PURGE INFORMATION

Pump Type / ID	Peri pump / 25465	Water Quality Meter Type / ID	Horiba U-52 / 51866
Pump Intake Depth (ft)	~9 ft	Flow-Thru Cell Volume (L)	1L
Purge Start Time	1514	Appearance/Odor (Start)	Clear / odorless
Purge End Time	1624	Appearance/Odor (End)	Clear / odorless
Average Purge Rate (mL/min)	0.20	Total Drawdown (ft)	—
Well Went Dry (Y/N)	(N)	Stop Time	—
Recovery Time	—	Recovery Rate (mL/min)	—
Total Volume Removed (L)	14.00	Total Pump Time (min)	70
Volume removed (L)	—	Restart Purge Time	—

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+/- 3%)	Temp. (°C) (+/- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
5/23	1514	0.20	—	6.66	0.506	13.44	66	47.9	9.50	—
5/23	1519	0.20	1.00	6.72	0.495	11.62	104	25.4	7.93	—
5/23	1524	0.20	2.00	6.65	0.518	11.62	111	13.7	7.98	—
5/23	1529	0.20	3.00	6.59	0.521	11.71	117	4.5	7.94	—
5/23	1534	0.20	4.00	6.55	0.518	11.44	123	11.5	7.89	—
5/23	1539	0.20	5.00	6.52	0.525	11.53	127	7.1	7.86	—
5/23	1544	0.20	6.00	6.52	0.522	11.55	130	2.7	7.80	—
5/23	1549	0.20	7.00	6.53	0.520	11.60	131	1.5	7.85	—
5/23	1554	0.20	8.00	6.53	0.523	11.62	132	0.0	7.83	—
SAMPLE @ 1554										

COMMENTS PID: 1.2 ppm *DTW/DTB taken after sampling.

SAMPLE COLLECTION

Sample Date	5/23/23	Sample Time	1554
Sample ID	518014-MW-24		
QA/QC Collected / ID	DUP	Sample Appearance/Odor	Clear / odorless
Analyses	PEAS, VOCs, SVOCs, Pesticides, 1,4-Dioxane		
Sampler	H. Young	Signature	Haley Young



WELL PURGING AND SAMPLING RECORD

Site Name/Location	Korkay / Broadalbin, NY	Project No:	518014	Page	1 of 1
Well ID	MW-155	Date	5/23/23	Time	1355
Well Site Description	Grass (N onsite)				
Weather/Temp	Sunny, 71°F				
Field Technician	H. Young				

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	Screened Interval (ft bgs)	
Well Diameter (in.)	2	Nominal Borehole Diameter (in.)

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	9.90	Gallons per foot of depth	0.163
Depth to product (ft)	—	Static water level (ft)	3.70
Product column height (ft)	—	Water column height (ft)	6.20
Product volume (Gallons)	—	Water volume (Gallons)	1.01

PURGE INFORMATION

Pump Type / ID	Peri pump / 25465	Water Quality Meter Type / ID	Horiba U-S2 / 51866		
Pump Intake Depth (ft)	~ 7 ft	Flow-Thru Cell Volume (L)	1 L		
Purge Start Time	1403	Appearance/Odor (Start)	clear/odorous		
Purge End Time	1447	Appearance/Odor (End)			
Average Purge Rate (mL/min)	0.25	Total Drawdown (ft)			
Well Went Dry (Y/N)	(N)	Stop Time	—	Volume removed (L)	—
Recovery Time	—	Recovery Rate (mL/min)	—	Restart Purge Time	—
Total Volume Removed (L)	11.00	Total Pump Time (min)	44		

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+/- 3%)	Temp. (°C) (+/- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
5/23	1403	0.25	—	7.20	0.261	14.77	-301	218	3.28	—
5/23	1408	0.25	1.25	6.53	0.239	12.53	-51	41.6	0.00	—
5/23	1413	0.25	2.50	6.36	0.228	12.60	-40	22.7	0.00	—
5/23	1418	0.25	3.75	6.22	0.225	12.80	-31	1.5	0.00	—
5/23	1423	0.25	5.00	6.20	0.226	12.38	-28	0.0	0.00	—
5/23	1428	0.25	6.25	6.14	0.230	12.10	-28	0.0	0.00	—
5/23	1433	0.25	7.50	6.16	0.233	12.11	-28	0.0	0.00	—
SAMPLE @ 1433										

COMMENTS

SAMPLE COLLECTION

Sample Date	5/23/23	Sample Time	1433
Sample ID	518014-MW-155-		
QA/QC Collected / ID	N/A	Sample Appearance/Odor	
Analyses	PFAS, VOCs, SVOCs, Pesticides, 1,4-Dioxane		
Sampler	H. Young	Signature	Haley Young



WELL PURGING AND SAMPLING RECORD

Site Name/Location	Korkay / Broadalbin NY	Project No:	518014	Page	1	of	1
Well ID	MW-17	Date	5/23/23	Time	1250		
Well Site Description	Grass (NE corner onsite)						
Weather/Temp	Sunny, 69°F						
Field Technician	H. Young						

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	Screened Interval (ft bgs)		
Well Diameter (in.)	2	Nominal Borehole Diameter (in.)	

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	14.44	Gallons per foot of depth	0.163
Depth to product (ft)	—	Static water level (ft)	3.85
Product column height (ft)	—	Water column height (ft)	10.59
Product volume (Gallons)	—	Water volume (Gallons)	1.73

PURGE INFORMATION

Pump Type / ID	Peri pump / 25445	Water Quality Meter Type / ID	Horiba U-52 / 51866		
Pump Intake Depth (ft)	~12 ft	Flow-Thru Cell Volume (L)	1 L		
Purge Start Time	1251	Appearance/Odor (Start)	Clear / odorless		
Purge End Time	1341	Appearance/Odor (End)	Clear / odorless		
Average Purge Rate (mL/min)	0.25	Total Drawdown (ft)	—		
Well Went Dry (Y/N)	Y	Stop Time	—	Volume removed (L)	—
Recovery Time	—	Recovery Rate (mL/min)	—	Restart Purge Time	—
Total Volume Removed (L)	12.50	Total Pump Time (min)	50		

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+/-3%)	Temp. (°C) (+/-3%)	ORP (mV) (+/-10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
5/23	1251	0.25	—	6.95	0.436	17.68	-82	804	0.00	—
5/23	1256	0.25	1.25	6.80	0.426	15.13	-88	625	0.00	—
5/23	1301	0.25	2.50	6.81	0.364	14.60	-87	424	0.00	—
5/23	1306	0.25	3.75	6.83	0.353	12.80	-84	241	0.00	—
5/23	1311	0.25	5.00	6.82	0.353	12.99	-71	136	0.00	—
5/23	1316	0.25	6.25	6.78	0.362	13.14	-59	32.6	0.00	—
5/23	1321	0.25	7.50	6.74	0.370	13.17	-52	36.9	0.00	—
5/23	1326	0.25	8.75	6.73	0.374	13.36	-50	35.4	0.00	—
SAMPLE @ 1326										

COMMENTS PID: 8.7ppm * DTW/DTB taken after sampling

SAMPLE COLLECTION

Sample Date	5/23/23	Sample Time	1326
Sample ID	518014-MW-17		
QA/QC Collected / ID	N/A	Sample Appearance/Odor	Clear / odorless
Analyses	PFAS, VOCs, SROCs, Pesticides, 1,4-Dioxane		
Sampler	H. Young	Signature	Haley Young



WELL PURGING AND SAMPLING RECORD

Site Name/Location <u>Korkay / Broadalbin, NY</u>	Project No: <u>518014</u>	Page <u>1</u> of <u>1</u>
Well ID <u>MW-18</u>	Date <u>5/23/23</u>	Time <u>1140</u>
Well Site Description <u>Grass (NE onsite)</u>		
Weather/Temp <u>Sunny, 65°F</u>		
Field Technician <u>H. Young</u>		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	Screened Interval (ft bgs)
Well Diameter (in.) <u>2</u>	Nominal Borehole Diameter (in.)

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) <u>14.48</u>	Gallons per foot of depth <u>0.163</u>
Depth to product (ft) <u>—</u>	Static water level (ft) <u>5.07</u>
Product column height (ft) <u>—</u>	Water column height (ft) <u>9.46</u>
Product volume (Gallons) <u>—</u>	Water volume (Gallons) <u>1.54</u>

PURGE INFORMATION

Pump Type / ID <u>Peri pump / 25465</u>	Water Quality Meter Type / ID <u>Horiba U-52 / 518014</u>
Pump Intake Depth (ft) <u>~ 12 ft</u>	Flow-Thru Cell Volume (L) <u>1L</u>
Purge Start Time <u>1141</u>	Appearance/Odor (Start) <u>clear/odorless</u>
Purge End Time <u>1229</u>	Appearance/Odor (End) <u>clear/odorless</u>
Average Purge Rate (mL/min) <u>0.25</u>	Total Drawdown (ft) <u>—</u>
Well Went Dry (Y/N) <u>N</u>	Stop Time <u>—</u>
Recovery Time <u>—</u>	Recovery Rate (mL/min) <u>—</u>
Total Volume Removed (L) <u>12.00</u>	Total Pump Time (min) <u>48</u>

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+/- 3%)	Temp. (°C) (+/- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
5/23	1141	0.25	—	6.97	0.371	15.43	81	668	7.69	—
5/23	1146	0.25	1.25	6.68	0.373	14.24	125	127	5.20	—
5/23	1151	0.25	2.50	6.64	0.373	13.28	79	18.0	5.39	—
5/23	1156	0.25	3.75	6.64	0.382	13.08	65	6.4	5.42	—
5/23	1201	0.25	5.00	6.64	0.386	12.86	68	4.2	5.54	—
5/23	1206	0.25	6.25	6.64	0.386	13.26	65	0.8	5.47	—
5/23	1211	0.25	7.50	6.65	0.381	13.33	64	0.0	5.48	—
SAMPLE @ 1211										

COMMENTS PID: 0.7 ppm * DTW/DTB taken after sampling.

SAMPLE COLLECTION

Sample Date <u>5/23/23</u>	Sample Time <u>1211</u>
Sample ID <u>518014-MW-18</u>	
QA/QC Collected / ID <u>N/A</u>	Sample Appearance/Odor <u>clear/odorless</u>
Analyses <u>PFAS, VOCs, SVOCs, 1,4-Dioxane, Pesticides</u>	
Sampler <u>H. Young</u>	Signature <u>Haley Young</u>



WELL PURGING AND SAMPLING RECORD

Site Name/Location <u>Korkay / Broadalbin, NY</u>	Project No: <u>518014</u>	Page <u>1</u> of <u>1</u>
Well ID <u>VEW-1</u>	Date <u>5/23/23</u>	Time <u>1020</u>
Well Site Description <u>Grass area (E portion onsite)</u>		
Weather/Temp <u>Cloudy, 60°F</u>		
Field Technician <u>H. Young</u>		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	Screened Interval (ft bgs)
Well Diameter (in.) <u>2</u>	Nominal Borehole Diameter (in.)

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) <u>8.14</u>	Gallons per foot of depth <u>0.163</u>
Depth to product (ft) <u>—</u>	Static water level (ft) <u>5.45</u>
Product column height (ft) <u>—</u>	Water column height (ft) <u>2.69</u>
Product volume (Gallons) <u>—</u>	Water volume (Gallons) <u>0.438</u>

PURGE INFORMATION

Pump Type / ID <u>peri pump / 25465</u>	Water Quality Meter Type / ID <u>Honiba U-52 / 518662</u>	
Pump Intake Depth (ft) <u>~6 ft</u>	Flow-Thru Cell Volume (L) <u>1L</u>	
Purge Start Time <u>1022</u>	Appearance/Odor (Start) <u>clear / odorless</u>	
Purge End Time <u>1122</u>	Appearance/Odor (End)	
Average Purge Rate (mL/min) <u>0.20</u>	Total Drawdown (ft)	
Well Went Dry (Y/N) <u>(N)</u>	Stop Time <u>—</u>	Volume removed (L) <u>—</u>
Recovery Time <u>—</u>	Recovery Rate (mL/min) <u>—</u>	Restart Purge Time <u>—</u>
Total Volume Removed (L) <u>12.00</u>	Total Pump Time (min) <u>60</u>	

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+/- 3%)	Temp. (°C) (+/- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
5/23	1022	0.20	—	7.23	0.243	14.65	41	70.2	10.97	—
5/23	1027	0.20	1.00	6.98	0.236	14.50	-6	56.1	8.65	—
5/23	1032	0.20	2.00	6.85	0.237	13.64	-39	57.9	8.11	—
5/23	1037	0.20	3.00	6.82	0.238	13.18	-50	46.2	7.73	—
5/23	1042	0.20	4.00	6.81	0.238	13.10	-55	23.1	7.17	—
5/23	1047	0.20	5.00	6.81	0.239	13.10	-57	14.3	6.78	—
5/23	1052	0.20	6.00	6.80	0.239	13.28	-56	9.6	6.36	—
5/23	1057	0.20	7.00	6.79	0.239	13.19	-57	3.5	5.96	—
5/23	1102	0.20	8.00	6.79	0.240	13.14	-56	2.7	5.81	—
5/23	1107	0.20	9.00	6.78	0.240	13.09	-56	1.4	5.78	—
SAMPLE @ 1107										

COMMENTS PID: 1.7 ppm * DTW/DTB taken after sampling

SAMPLE COLLECTION

Sample Date <u>5/23/23</u>	Sample Time <u>1107</u>
Sample ID <u>518014-VEW-1</u>	
QA/QC Collected / ID <u>N/A</u>	Sample Appearance/Odor
Analyses <u>PFAS, VOCs, SVOCs, 1,4-Dioxane, Pesticides</u>	
Sampler <u>H. Young</u>	Signature <u>Haley Young</u>



WELL PURGING AND SAMPLING RECORD

Site Name/Location <u>Korkay/Broadalbin, NY</u>	Project No: <u>518014</u>	Page <u>1</u> of <u>1</u>
Well ID <u>VEW-2</u>	Date <u>5/23/23</u>	Time <u>0900</u>
Well Site Description <u>grassy area (Eastern portion onsite)</u>		
Weather/Temp <u>Sunny / 56°F</u>		
Field Technician <u>H. Young</u>		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	Screened Interval (ft bgs)
Well Diameter (in.) <u>2</u>	Nominal Borehole Diameter (in.)

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) <u>8.56</u>	Gallons per foot of depth <u>0.163</u>
Depth to product (ft) <u>—</u>	Static water level (ft) <u>5.54</u>
Product column height (ft) <u>—</u>	Water column height (ft) <u>3.02</u>
Product volume (Gallons) <u>—</u>	Water volume (Gallons) <u>0.492</u>

PURGE INFORMATION

Pump Type / ID <u>Peri pump / 25465</u>	Water Quality Meter Type / ID <u>Horiba U-52 / 51866</u>	
Pump Intake Depth (ft) <u>~6 ft</u>	Flow-Thru Cell Volume (L) <u>1L</u>	
Purge Start Time <u>0906</u>	Appearance/Odor (Start) <u>clear/odorless</u>	
Purge End Time <u>0956</u>	Appearance/Odor (End) <u>clear/odorless</u>	
Average Purge Rate (mL/min) <u>0.20</u>	Total Drawdown (ft) <u>—</u>	
Well Went Dry (Y/N) <u>(N)</u>	Stop Time <u>—</u>	Volume removed (L) <u>—</u>
Recovery Time <u>—</u>	Recovery Rate (mL/min) <u>—</u>	Restart Purge Time <u>—</u>
Total Volume Removed (L) <u>10.00</u>	Total Pump Time (min) <u>50</u>	

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+/- 3%)	Temp. (°C) (+/- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
5/23	0906	0.20	—	6.87	0.418	13.63	103	143	5.15	—
5/23	0911	0.20	1.00	6.86	0.428	13.24	114	67.2	2.05	—
5/23	0916	0.20	2.00	6.84	0.437	13.10	109	37.6	0.99	—
5/23	0921	0.20	3.00	6.89	0.433	13.17	105	18.8	1.42	—
5/23	0926	0.20	4.00	6.88	0.432	13.33	105	17.1	0.84	—
5/23	0931	0.20	5.00	6.87	0.432	13.58	101	12.7	0.71	—
5/23	0936	0.20	6.00	6.87	0.431	13.76	101	12.7	0.78	—
5/23	0941	0.20	7.00	6.88	0.432	13.71	101	12.3	0.77	—
SAMPLE @ 0941										

COMMENTS PID: 0.2ppm * DTW taken after sampling

SAMPLE COLLECTION

Sample Date <u>5/23/23</u>	Sample Time <u>0941</u>
Sample ID <u>518014-VEW-2</u>	
QA/QC Collected / ID <u>N/A</u>	Sample Appearance/Odor <u>clear/odorless</u>
Analyses <u>PFAS, VOC, SVOC, 1,4-Dioxane, Pesticides</u>	
Sampler <u>H. Young</u>	Signature <u>H. Young</u>



WELL PURGING AND SAMPLING RECORD

518014

Site Name/Location	Korkay / Broadalbin, NY	Project No:	~~W00120134~~	Page	1	of	1
Well ID	MW-23	Date	5/23/23	Time	0800		
Well Site Description	Grass adjacent to sidewalk						
Weather/Temp	Sunny / 51°F						
Field Technician	H. Young						

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	Screened Interval (ft bgs)		
Well Diameter (in.)	2	Nominal Borehole Diameter (in.)	

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	14.29	Gallons per foot of depth	0.163
Depth to product (ft)	—	Static water level (ft)	6.29
Product column height (ft)	—	Water column height (ft)	8
Product volume (Gallons)	—	Water volume (Gallons)	1.304

PURGE INFORMATION

Pump Type / ID	Deri pump / 254105	Water Quality Meter Type / ID	Horiba U-52 / 51806		
Pump Intake Depth (ft)	12 ft	Flow-Thru Cell Volume (L)	1L		
Purge Start Time	0803	Appearance/Odor (Start)	clear / no odor		
Purge End Time	0845	Appearance/Odor (End)	clear / no odor		
Average Purge Rate (mL/min)	0.25	Total Drawdown (ft)	—		
Well Went Dry (Y/N)	N	Stop Time	—	Volume removed (L)	—
Recovery Time	—	Recovery Rate (mL/min)	—	Restart Purge Time	—
Total Volume Removed (L)	10.50	Total Pump Time (min)	47		

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+/- 3%)	Temp. (°C) (+/- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
5/23	0803	0.25	—	5.86	1.07	10.59	-32	2.1	10.81	—
5/23	0808	0.25	1.25	6.62	0.734	10.09	-32	1.4	9.58	—
5/23	0813	0.25	2.50	6.78	0.483	10.14	-27	0.6	9.22	—
5/23	0818	0.25	3.75	6.89	0.345	10.04	-21	0.0	9.01	—
5/23	0823	0.25	5.00	6.93	0.320	10.13	-24	0.0	8.72	—
5/23	0828	0.25	6.25	6.95	0.313	10.15	-28	0.0	8.45	—
5/23	0833	0.25	7.50	6.95	0.315	10.19	-30	0.0	8.23	—
SAMPLE @ 0833										

COMMENTS PID: 1.1 ppm *DTW taken after sampling due to PFAS.

SAMPLE COLLECTION

Sample Date	5/23/23	Sample Time	0833
Sample ID	518014-MW-23		
QA/QC Collected / ID	N/A	Sample Appearance/Odor	Clear / no odor
Analyses	PFAS, VOCs, SVOCs, Pesticides, 1,4-Dioxane		
Sampler	H. Young	Signature	H. Young

WELL PURGING AND SAMPLING RECORD

Site Name/Location	Korway / Broadalbin, NY	Project No:	518014	Page	1	of	1
Well ID	mw-85	Date	5/23/23	Time	16:00		
Well Site Description	pavement (E) of residence on W. Main St.						
Weather/Temp	Sunny / warm						
Field Technician	LE						

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) —	Screened Interval (ft bgs) —
Well Diameter (in.) 7 in	Nominal Borehole Diameter (in.) —

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) <i>10.59</i>	Gallons per foot of depth <i>0.163</i>
Depth to product (ft) <i>—</i>	Static water level (ft) <i>5.78</i>
Product column height (ft) <i>—</i>	Water column height (ft) <i>4.81</i>
Product volume (Gallons) <i>—</i>	Water volume (Gallons) <i>0.784</i>

PURGE INFORMATION

Pump Type / ID	Peri pump / 36778	Water Quality Meter Type / ID	Horiha V-S2 / 21210
Pump Intake Depth (ft)	~8	Flow-Thru Cell Volume (L)	12
Purge Start Time	16:14	Appearance/Odor (Start)	Clear / none
Purge End Time	17:03	Appearance/Odor (End)	clear / odorless
Average Purge Rate (mL/min)	0.25	Total Drawdown (ft)	—
Well Went Dry (Y/N)	Y	Stop Time	—
Recovery Time	—	Volume removed (L)	—
Total Volume Removed (L)	12.25	Recovery Rate (mL/min)	—
Total Pump Time (min)	49	Restart Purge Time	—

[illegible]

COMMENTS 0.0 ppm - gauged after sample due to PFAS

SAMPLE COLLECTION

Sample Date <u>5/23/23</u>	Sample Time <u>1656</u>
Sample ID <u>518014-MW-8S</u>	
QA/QC Collected / ID <u>N/A</u>	Sample Appearance/Odor <u>clear/odorless</u>
Analyses <u>PFAS, VOCs, SVOCs, Pesticides + 1,4-Dioxane</u>	
Sampler <u>L. Casey</u>	Signature



WELL PURGING AND SAMPLING RECORD

Site Name/Location <u>Kerway / Broadalbin, NY</u>	Project No: <u>518014</u>	Page <u>1</u> of <u>1</u>
Well ID <u>MW-21</u>	Date <u>5/23/23</u>	Time <u>1450</u>
Well Site Description <u>Grass in front of residence (W. Main St.)</u>		
Weather/Temp <u>Partly cloudy / warm</u>		
Field Technician <u>LC</u>		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) <u>—</u>	Screened Interval (ft bgs) <u>—</u>
Well Diameter (in.) <u>2</u>	Nominal Borehole Diameter (in.) <u>—</u>

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) <u>11.18</u>	Gallons per foot of depth <u>0.163</u>
Depth to product (ft) <u>—</u>	Static water level (ft) <u>6.21</u>
Product column height (ft) <u>—</u>	Water column height (ft) <u>4.97</u>
Product volume (Gallons) <u>—</u>	Water volume (Gallons) <u>0.810</u>

PURGE INFORMATION

Pump Type / ID <u>Peri pump 136778</u>	Water Quality Meter Type / ID <u>Horiba U-52 / 21210</u>
Pump Intake Depth (ft) <u>~9</u>	Flow-Thru Cell Volume (L) <u>1L</u>
Purge Start Time <u>14:54</u>	Appearance/Odor (Start) <u>Dark Turb / none</u>
Purge End Time <u>15:54</u>	Appearance/Odor (End) <u>Clear / odorless</u>
Average Purge Rate (mL/min) <u>0.25</u>	Total Drawdown (ft) <u>—</u>
Well Went Dry (Y/N) <u>N</u>	Stop Time <u>—</u>
Recovery Time <u>—</u>	Recovery Rate (mL/min) <u>—</u>
Total Volume Removed (L) <u>15</u>	Volume removed (L) <u>—</u>
	Restart Purge Time <u>—</u>
	Total Pump Time (min) <u>60</u>

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+/- 3%)	Temp. (°C) (+/- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
5/23	14:58	0.25	~	6.50	2.63	16.95	123	434	1.15	—
	15:03		1.75	6.76	2.72	13.14	99	390	0.86	—
	15:08		2.50	6.81	2.76	13.15	79	17.8	1.44	—
	15:13		3.75	6.82	2.81	12.86	65	27.6	1.28	—
	15:18		5.00	6.82	2.79	12.82	54	17.3	1.12	—
	15:23		6.25	6.82	2.76	12.75	45	14.4	0.60	—
	15:28		7.50	6.82	2.75	12.61	44	3.2	0.59	—
	15:33		8.75	6.81	2.75	12.61	40	0.0	0.51	—
	15:38	↓	10.00	6.82	2.74	12.63	38	0.0	0.58	—
	15:43		11.25							
	15:48		12.50							

COMMENTS 0.1 ppm - gauge after sample due to PFAS

SAMPLE COLLECTION

Sample Date <u>5/23/23</u>	Sample Time <u>15:43</u>
Sample ID <u>518014-MW-21</u>	
QA/QC Collected / ID <u>N/A</u>	Sample Appearance/Odor <u>Clear / odorless</u>
Analyses <u>PFAS, SVOCs, VOCs, Pesticides + 1,4-Dioxane</u>	
Sampler <u>LC</u>	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location	Korkay/Broadalbin, NY	Project No:	518014	Page	1	of	1
Well ID	K-3	Date	5/23/23	Time	1348		
Well Site Description	SE corner onsite						
Weather/Temp	Sunny/Warm						
Field Technician	LC						

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) —	Screened Interval (ft bgs) —
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) —

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 10.54	Gallons per foot of depth 0.163
Depth to product (ft) —	Static water level (ft) 5.58
Product column height (ft) —	Water column height (ft) 4.96
Product volume (Gallons) —	Water volume (Gallons) 0.808

PURGE INFORMATION

Pump Type / ID	Peri pump / 36778	Water Quality Meter Type / ID	Hanna V-52 / 2210
Pump Intake Depth (ft)	~ 8	Flow-Thru Cell Volume (L)	1L
Purge Start Time	1358	Appearance/Odor (Start)	clear / none
Purge End Time	1440	Appearance/Odor (End)	clear / none
Average Purge Rate (mL/min)	0.25	Total Drawdown (ft)	
Well Went Dry (Y/N)		Stop Time	—
Recovery Time	—	Volume removed (L)	—
		Recovery Rate (mL/min)	—
		Restart Purge Time	—
Total Volume Removed (L)	10.5	Total Pump Time (min)	43

[illegible]

COMMENTS 0.0 mm - gauge after sample due to PFA's

SAMPLE COLLECTION

Sample Date 5/23/23	Sample Time 14:30
Sample ID 516014-K-3	
QA/QC Collected / ID N/A	Sample Appearance/Odor Clear/none
Analyses PEKs, VOCs, SVOCs, Pesticides + 1,4-Dioxane	
Sampler / /	Signature



WELL PURGING AND SAMPLING RECORD

. 0011

Site Name/Location	Korky / Broadalbin, NY	Project No:	1602534	Page	of 1
Well ID	MW-22	Date	8/23/23	Time	1213
Well Site Description	Onsite (W fence line)				
Weather/Temp	67 Sunny				
Field Technician	NR LC/Hy				

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	—	Screened Interval (ft bgs)	—
Well Diameter (in.)	2	Nominal Borehole Diameter (in.)	—

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	9.25	Gallons per foot of depth	0.163
Depth to product (ft)	NA	Static water level (ft)	4.60
Product column height (ft)	NA	Water column height (ft)	4.65
Product volume (Gallons)	NA	Water volume (Gallons)	0.758

PURGE INFORMATION

Pump Type / ID	per pump / 36778	Water Quality Meter Type / ID	Horiba U-52 / 21210
Pump Intake Depth (ft)	~7	Flow-Thru Cell Volume (L)	1 L
Purge Start Time	1213	Appearance/Odor (Start)	brown turbid
Purge End Time	1315	Appearance/Odor (End)	clear / odorless
Average Purge Rate (mL/min)	0.25	Total Drawdown (ft)	—
Well Went Dry (Y/N)	N	Stop Time	—
Recovery Time	—	Recovery Rate (mL/min)	—
Total Volume Removed (L)	15.50	Restart Purge Time	—
		Total Pump Time (min)	102

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	ms/cm Cond. (+/-3%)	Temp. (°C) (+/-3%)	ORP (mV) (+/-10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
5/23/23	1215	0.25	—	6.7	0.386	17.2	112	221	0.98	—
	1220		1.25	6.54	0.338	17.33	128	121	1.20	—
	1225		2.5	6.52	0.342	16.25	134	12.9	6.72	—
	1230		3.25	6.44	0.343	16.86	134	18.2	0.44	—
	1235		5.0	6.41	0.345	17.08	131	12.2	0.26	—
	1240		6.25	6.40	0.356	16.61	127	11.7	0.38	—
	1245		7.50	6.38	0.371	16.43	126	11.1	0.43	—
	1250		8.75	6.38	0.378	16.91	126	10.3	0.80	—
	1255		10.0	6.37	0.381	16.94	126	9.9	0.76	—
	1300		11.25	6.38	0.382	16.96	123	10.0	0.82	—
	1305									

COMMENTS: P4P = 0.4 ppm Gaged after sample due to PFAS

SAMPLE COLLECTION

Sample Date	8/23/23	Sample Time	13:05
Sample ID	518014-MW-22		
QA/QC Collected / ID	MMM MS/MSD	Sample Appearance/Odor	clear / odorless
Analyses	PFAS, VOCs, SVOCs, Pesticides + 1,4-Dioxane		
Sampler	LC	Signature	

WELL PURGING AND SAMPLING RECORD

Site Name/Location	W-4 / Broadalbin, NY	Project No:	518014	Page	1	of	1
Well ID	W-4	Date	5/23/23	Time	1000		
Well Site Description	SW portion onsite						
Weather/Temp	Sunny / Clear						
Field Technician	L. Casey						

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) --	Screened Interval (ft bgs) --
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) --

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) <u>8.25</u>	Gallons per foot of depth <u>0.163</u>
Depth to product (ft) <u>—</u>	Static water level (ft) <u>6.29</u>
Product column height (ft) <u>—</u>	Water column height (ft) <u>1.96</u>
Product volume (Gallons) <u>—</u>	Water volume (Gallons) <u>0.319</u>

PURGE INFORMATION

Pump Type / ID	Peri pump / 36778	Water Quality Meter Type / ID	Horiba U-52 / 21210
Pump Intake Depth (ft)	~ 6	Flow-Thru Cell Volume (L)	12
Purge Start Time	10:03	Appearance/Odor (Start)	clear / odorless
Purge End Time	1053	Appearance/Odor (End)	clear / odorless
Average Purge Rate (mL/min)	0.25	Total Drawdown (ft)	—
Well Went Dry (Y/N)	N	Stop Time	—
Recovery Time	—	Volume removed (L)	—
Total Volume Removed (L)	12.5	Recovery Rate (mL/min)	—
		Restart Purge Time	—
		Total Pump Time (min)	50

[illegible]

COMMENTS 0.8 ppm - Gauged after sampling due to PFA's

SAMPLE COLLECTION

Sample Date	5/23/23	Sample Time	10:45
Sample ID	518014-NEW-24		
QA/QC Collected / ID	N/A	Sample Appearance/Odor	clear / odorless
Analyses	PFAS, VOCs, SVOCs, Pesticides + 1,4-Dioxane		
Sampler	1e	Signature	



WELL CONSTRUCTION DATA

FIELD MEASUREMENTS

PURGE INFORMATION

COMMENTS 13.3 ppm - Gravied after sampled due to PFA's

SAMPLE COLLECTION

Sample Date 5/23/23	Sample Time 08:38
Sample ID 518014-ASW-	
QA/QC Collected / ID N/A	Sample Appearance/Odor Clear / odoness
Analyses PFAS, VOCs, SVOCs, Pesticides + 1,4-Dioxane	
Sampler L.L.W.	Signature



WELL PURGING AND SAMPLING RECORD

Site Name/Location <u>Koway/Broadalbin, NY</u>	Project No: <u>518014</u>	Page <u>1</u> of <u>1</u>
Well ID <u>VEW3</u>	Date <u>5/23/23</u>	Time <u>0900</u>
Well Site Description <u>SW corner onsite</u>		
Weather/Temp <u>Sunny/clear</u>		
Field Technician <u>LC</u>		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) <u>—</u>	Screened Interval (ft bgs) <u>—</u>
Well Diameter (in.) <u>2 in</u>	Nominal Borehole Diameter (in.) <u>—</u>

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) <u>8.48</u>	Gallons per foot of depth <u>0.163</u>
Depth to product (ft) <u>—</u>	Static water level (ft) <u>6.35</u>
Product column height (ft) <u>—</u>	Water column height (ft) <u>2.13</u>
Product volume (Gallons) <u>—</u>	Water volume (Gallons) <u>0.347</u>

PURGE INFORMATION

Pump Type / ID <u>peri pump / 136778</u>	Water Quality Meter Type / ID <u>Hanna V-52 / 21210</u>
Pump Intake Depth (ft) <u>~6</u>	Flow-Thru Cell Volume (L) <u>1L</u>
Purge Start Time <u>08:58</u>	Appearance/Odor (Start) <u>clear, odorless</u>
Purge End Time <u>09:55</u>	Appearance/Odor (End) <u>clear, odorless</u>
Average Purge Rate (mL/min) <u>0.25</u>	Total Drawdown (ft) <u>—</u>
Well Went Dry (Y/N) <u>N</u>	Stop Time <u>—</u>
Recovery Time <u>—</u>	Recovery Rate (mL/min) <u>—</u>
Total Volume Removed (L) <u>14.25</u>	Total Pump Time (min) <u>57</u>

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+/-3%)	Temp. (°C) (+/-3%)	ORP (mV) (+/-10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
5/23	08:00	0.25	—	7.08	0.336	12.57	-8	14	7.98	—
	08:05		1.25	6.97	0.349	12.43	38	8.3	5.92	—
	08:10		2.50	6.94	0.348	11.97	71	7.5	5.81	—
	08:15		3.75	6.90	0.354	11.89	63	6.2	5.22	—
	08:20		5.00	6.84	0.360	12.14	36	6.1	3.90	—
	08:25		6.25	6.84	0.363	11.88	32	5.7	4.00	—
	08:30		7.50	6.82	0.365	11.92	24	5.1	3.76	—
	08:35		8.75	6.82	0.365	11.93	18	5.1	3.79	—
	08:40		10.00	6.82	0.368	11.94	17	4.0	3.73	6.35
	08:45				SAMPLE					

COMMENTS 0.5 ppm - gauged after sampling due to PFAS

SAMPLE COLLECTION

Sample Date <u>5/23/23</u>	Sample Time <u>09:45</u>
Sample ID <u>518014-VEW-3</u>	
QA/QC Collected / ID <u>N/A</u>	Sample Appearance/Odor <u>clear/odorless</u>
Analyses <u>PFAS, VOCs/SVOCs, Pesticides + 1,4-Dioxane</u>	
Sampler <u>LC</u>	Signature



WELL PURGING AND SAMPLING RECORD

Site Name/Location	Kornay/Broadalbin NY	Project No:	518014	Page	1 of 1
Well ID	K-2	Date	5/23/23	Time	11:00
Well Site Description	SE arach area				
Weather/Temp	Sunny/clear				
Field Technician	LC				

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	—	Screened Interval (ft bgs)	—
Well Diameter (in.)	2	Nominal Borehole Diameter (in.)	—

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	14.13	Gallons per foot of depth	0.163
Depth to product (ft)	—	Static water level (ft)	5.69
Product column height (ft)	—	Water column height (ft)	8.44
Product volume (Gallons)	—	Water volume (Gallons)	1.38

PURGE INFORMATION

Pump Type / ID	Peri Pump / 36778	Water Quality Meter Type / ID	Horiba V-52 / 21210
Pump Intake Depth (ft)	~12	Flow-Thru Cell Volume (L)	1L
Purge Start Time	11:08	Appearance/Odor (Start)	clear/odorless
Purge End Time	12:15	Appearance/Odor (End)	clear/odorless
Average Purge Rate (mL/min)	0.25	Total Drawdown (ft)	—
Well Went Dry (Y/N)	N	Stop Time	—
Recovery Time	—	Volume removed (L)	—
Recovery Rate (mL/min)	—	Restart Purge Time	—
Total Volume Removed (L)	16.75	Total Pump Time (min)	67

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+/-3%)	Temp. (°C) (+/-3%)	ORP (mV) (+/-10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
5/23	11:10	0.25	—	7.11	0.208	18.60	15	110	4.00	—
	11:15		1.25	7.07	0.196	17.56	54	98.7	3.77	—
	11:20		2.50	6.91	0.192	16.31	91	58.0	4.92	—
	11:25		3.75	6.88	0.192	16.03	98	58.0	4.89	—
	11:30		5.00	6.85	0.196	15.85	107	35.5	4.72	—
	11:35		6.25	6.82	0.194	15.96	113	17.4	4.56	—
	11:40		7.50	6.80	0.195	15.98	119	7.1	4.54	—
	11:45		8.75	6.78	0.194	16.61	124	8.1	4.41	—
	11:50		10.00	6.78	0.195	16.05	126	7.6	4.40	—
	11:55		11.25	6.77	0.196	16.00	129	7.3	4.38	—
	12:00									

COMMENTS 0.1 ppm - gauged after sampling due to PFAS

SAMPLE COLLECTION

Sample Date	5/23/23	Sample Time	12:00
Sample ID	518014-K-2		
QA/QC Collected / ID	N/A	Sample Appearance/Odor	clear/odorless
Analyses	PFAS, VOCs, SVOCs, Pesticides, 1,4-Dioxane		
Sampler	LC	Signature	



WELL PURGING AND SAMPLING RECORD

Site Name/Location <u>Korway/Bronxville NY</u>	Project No: <u>518014</u>	Page <u>1</u> of <u>1</u>
Well ID <u>MW-15D</u>	Date <u>5/24/23</u>	Time <u>0806</u>
Well Site Description <u>Grass in northernmost portion of site</u>		
Weather/Temp <u>Sunny/cool</u>		
Field Technician <u>LC</u>		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) <u>—</u>	Screened Interval (ft bgs) <u>—</u>
Well Diameter (in.) <u>2 in</u>	Nominal Borehole Diameter (in.) <u>—</u>

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) <u>40.04</u>	Gallons per foot of depth <u>0.163</u>
Depth to product (ft) <u>—</u>	Static water level (ft) <u>29.72</u>
Product column height (ft) <u>—</u>	Water column height (ft) <u>10.32</u>
Product volume (Gallons) <u>—</u>	Water volume (Gallons) <u>1.68</u>

PURGE INFORMATION

Pump Type / ID <u>Peri Pump / 36778</u>	Water Quality Meter Type / ID <u>Horiba V-52 / 21210</u>
Pump Intake Depth (ft) <u>~35 ft</u>	Flow-Thru Cell Volume (L) <u>1L</u>
Purge Start Time <u>0806</u>	Appearance/Odor (Start) <u>clear / none</u>
Purge End Time <u>0912</u>	Appearance/Odor (End) <u>clear / none</u>
Average Purge Rate (mL/min) <u>0.25</u>	Total Drawdown (ft) <u>—</u>
Well Went Dry (Y/N) <u>(N)</u>	Stop Time <u>—</u>
Recovery Time <u>—</u>	Recovery Rate (mL/min) <u>—</u>
Total Volume Removed (L) <u>10.5</u>	Volume removed (L) <u>—</u>
	Restart Purge Time <u>—</u>
	Total Pump Time (min) <u>60</u>

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+/-3%)	Temp. (°C) (+/-3%)	ORP (mV) (+/-10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
5/24	0810	0.25	—	7.37	0.161	11.99	133	0.8	2.40	—
	0815		1.25	9.60	0.141	11.63	85	0.3	2.09	—
	0820		2.50	9.66	0.140	11.64	73	0.0	2.11	—
	0825		3.75	9.58	0.140	11.71	63	0.0	3.02	—
	0830		5.00	9.51	0.142	11.76	58	0.0	2.97	—
	0835		6.25	9.49	0.144	11.79	52	0.0	1.81	
	0840		7.50	9.20	0.146	12.02	44	0.0	1.61	
	0845		8.75	9.18	0.148	12.06	42	0.0	1.60	
	0850		10.00	9.18	0.148	12.10	38	0.0	1.58	
	0855									

COMMENTS 0.0 ppm - gauged after sample due to PFAS

SAMPLE COLLECTION

Sample Date <u>5/24/23</u>	Sample Time <u>0855</u>
Sample ID <u>518014-MW-15D</u>	
QA/QC Collected / ID <u>N/A</u>	Sample Appearance/Odor <u>Clear / odorous</u>
Analyses <u>PFAS, VOCs, SVOCs, Pesticides + 1,4-Dioxane</u>	
Sampler <u>LC</u>	Signature <u>—</u>

WELL PURGING AND SAMPLING RECORD

Site Name/Location	Korkos / Broadalbin, NY	Project No:	518014	Page	1 of 1
Well ID	~~mmmmmm~~ MW-19	Date	5/23/23	Time	1715
Well Site Description	South most well on Second Ave.				
Weather/Temp	Sunny / warm				
Field Technician	J.E.				

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) —	Screened Interval (ft bgs) —
Well Diameter (in.) 2	Nominal Borehole Diameter (in.) —

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) <u>9.75</u>	Gallons per foot of depth <u>0.163</u>
Depth to product (ft) <u>—</u>	Static water level (ft) <u>5.18</u>
Product column height (ft) <u>—</u>	Water column height (ft) <u>4.57</u>
Product volume (Gallons) <u>—</u>	Water volume (Gallons) <u>0.745</u>

PURGE INFORMATION

Pump Type / ID	Peri / 36778	Water Quality Meter Type / ID	400:ba / 21210
Pump Intake Depth (ft)		Flow-Thru Cell Volume (L)	1L
Purge Start Time	17:38	Appearance/Odor (Start)	Clear / none
Purge End Time	18:05	Appearance/Odor (End)	Clear / none
Average Purge Rate (mL/min)	0.25	Total Drawdown (ft)	-
Well Went Dry (Y/N)	(N)	Stop Time	-
Recovery Time	-	Volume removed (L)	-
		Recovery Rate (mL/min)	-
		Restart Purge Time	-
Total Volume Removed (L)	11.75	Total Pump Time (min)	47

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+/- 3%)	Temp. (°C) (+/- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
5/27	1720	0.25	—	6.31	5.76	15.70	159	56.3	0.49	—
↓	1725	↓	1.25	6.87	5.84	14.90	169	14.0	0.00	—
↓	1736	↓	2.50	6.93	6.04	14.77	172	7.0	0.00	—
↓	1735	↓	3.75	6.96	6.14	14.76	176	1.7	0.00	
↓	1740	↓	5.00	6.98	6.16	14.74	179	0.9	0.00	
↓	1745	↓	6.25	6.99	6.15	14.70	183	2.7	0.00	
	1750	— SAMPLE —								

COMMENTS G.E. app - gauge after sample due to PFAS

SAMPLE COLLECTION

Sample Date 5/23/23	Sample Time 17:50
Sample ID 518014 - MW - ~~19~~	
QA/QC Collected / ID N/A	Sample Appearance/Odor Clear / odorless
Analyses PFAS, SVOCs, VOCs, Pesticides + 1,4-Dioxane	
Sampler L.C.	Signature



EA Engineering, P.C. and Its Affiliate
EA Science and Technology

SEDIMENT SAMPLE LOG

Coordinates:

Northing:

Easting:

Surface Water Elevation:

Reference Elevation:

Reference Description:

Job. No.

518014

Client: NYSDEC

Project: Korkay

Location

SD-01

Sampling Location Description:

NE creek portion

Sample Location ID:

SD-01

Sheet 1 of 1

Sample Method: ~~M~~ Grab

Depth of Water Body: 4

Width of Water Body: 30

Water Body Location: NE

Sampling Date/Time

Start

Finish

DATE 5/24

DATE 5/24

TIME 1220

TIME 1245

Surface Conditions: Good

Weather: Sunny

Description of Sediment Water

loose fine + coarse sand with little gravel
+ little brown silt

Water Quality Parameters

Time	pH	Cond.	Turb.	DO	Temp	ORP
(hrs)	(pH units)	(mS/cm)	(ntu)	(mg/L)	(°C)	(mV)
1224	8.23	0.216	0.0	9.78	17.00	123

Total Quantity of Water Removed (gal):

Samplers:

Sampling Date:

N. Robinson

5/24/23

Sampling Time:

Split Sample With:

Sample Type:

1235

N/A

Grab



EA Engineering, P.C. and Its Affiliate
EA Science and Technology

SEDIMENT SAMPLE LOG

Coordinates: _____
Surface Water Elevation: _____
Reference Elevation: _____
Reference Description: _____

Northing: _____ Easting: _____

Job. No. 518014 Client: NYSDEC
Project: Korkay

Location
SD-01

Sampling Location Description:

Sample Location ID:
SD-01

NE creek portion

Sheet 1 of 1

Sample Method: ~~A~~ Grab

Depth of Water Body: 4

Sampling Date/Time

Width of Water Body: 30

Water Body Location NE

Start

Finish

DATE 5/24

DATE 5/24

TIME 1220

TIME 1245

Surface Conditions: Good

Weather: Sunny

Description of Sediment Water

loose fine + coarse sand with little gravel
+ little brown silt

Water Quality Parameters

Time	pH	Cond.	Turb.	DO	Temp	ORP
(hrs)	(pH units)	(mS/cm)	(ntu)	(mg/L)	(°C)	(mV)

1224	8.23	0.216	0.0	9.78	17.00	123

Total Quantity of Water Removed (gal): _____

Samplers: N. Robinson

Sampling Date: 5/24/23

Sampling Time: 1235

Split Sample With: N/A

Sample Type: Grab



EA Engineering, P.C. and Its Affiliate
EA Science and Technology

SEDIMENT SAMPLE LOG

Coordinates:

Northing:

Easting:

Surface Water Elevation:

Reference Elevation:

Reference Description:

Job No.

518014

Client: NYSDEC

Project: Korkay

Location

~~SD-02~~ SD-02

Sampling Location Description:

central creek portion

Sample Location ID:

~~SD-02~~ SD-02

Sheet 1 of 1

Sample Method: Grab

Depth of Water Body: 4 ft

Width of Water Body: 45 ft

Water Body Location: Central

Sampling Date/Time

Start

Finish

DATE 5/24

DATE 5/24

TIME 1130

TIME 1158

Surface Conditions: Good

Weather: Sunny

Description of Sediment Water

fine + coarse sand with gravel + little
brown silty clay

Total Quantity of Water Removed (gal):

Samplers:

Sampling Date:

N. Robinson

5/24/23

Sampling Time:

Split Sample With:

Sample Type:

1150

DUP + MS/MSD

Grab



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EA Science and Technology

SEDIMENT SAMPLE LOG

Coordinates:

Northing:

Easting:

Surface Water Elevation:

Reference Elevation:

Reference Description:

Job No.

518014

Client: NYSDEC

Project: Korkay

Location

SD-03

Sampling Location Description:

SW creek portion

Sample Location ID:

SD-03

Sheet 1 of 1

Sample Method: grab

Depth of Water Body: 4 ft

Width of Water Body: 30 ft

Water Body Location SW

Sampling Date/Time

Start

Finish

DATE 5/24

DATE 5/24

TIME 1335

TIME 1400

Surface Conditions: good

Weather: sunny

Description of Sediment Water

loose silty fine sand. brown with some
gravel and vegetation.

Water Quality Parameters

Time	pH	Cond.	Turb.	DO	Temp	ORP
(hrs)	(pH units)	(mS/cm)	(ntu)	(mg/L)	(°C)	(mV)

1340	8.23	0.224	0.0	8.52	17.66	102

Total Quantity of Water Removed (gal):

Samplers:

Sampling Date:

N. ROBINSON

5/24/23

Sampling Time:

Split Sample With:

Sample Type:

1355

N/A

grab



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EA Science and Technology

SURFACE WATER SAMPLE LOG

Coordinates:

Northing:

Easting:

Surface Water Elevation:

Reference Elevation:

Reference Description:

Job. No.

518014

Client:

NYSDEC

Project: Korkay

Location

SW-01

Sampling Location Description:

NE Creek portion

Sample Location ID:

SW-01

Sheet 1 of 1

Sample Method: Grab

Depth of Water Body: 4 ft

Width of Water Body: 30 ft

Water Body Location: NE

Sampling Date/Time

Start

Finish

DATE

DATE

TIME

TIME

Water Quality Parameters

Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)

Surface Conditions: Good

Weather: Sunny

Description of Surface Water

1224	8.23	0.216	0.0	9.78	17.00	123

Clear, calm

Total Quantity of Water Removed (gal):

Samplers:

Sampling Date:

N. Robinson

5/24/23

Sampling Time:

Split Sample With:

Sample Type:

1225

N/A

Grab



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EA Science and Technology

SURFACE WATER SAMPLE LOG

Coordinates:

Northing:

Easting:

Surface Water Elevation:

Reference Elevation:

Reference Description:

Job. No.

518014

Client:

NYSDEC

Project:

Korkay

Location

SW-02

Sampling Location Description:

Central Creek Portion

Sample Location ID:

SW-02

Sheet 1 of 1

Sample Method: Grab

Depth of Water Body: 4 ft

Width of Water Body: 45 ft

Water Body Location: Central

Sampling Date/Time

Start

Finish

DATE

DATE

TIME

TIME

Surface Conditions: Good

Weather: Sunny

Description of Surface Water

Clear, calm

Water Quality Parameters

Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)

1131	8.39	0.218	0.0	8.62	17.47	99

Total Quantity of Water Removed (gal):

Samplers:

Sampling Date:

N. Robinson

5/24/23

Sampling Time:

Split Sample With:

Sample Type:

1135

DUP + MS/MSD

Grab



EA Engineering, P.C. and Its Affiliate
EA Science and Technology

SURFACE WATER SAMPLE LOG

Coordinates:

Northings:

Easting:

Surface Water Elevation:

Reference Elevation:

Reference Description:

Job. No. Client: NYSDEC

518014 Project: Korkay

Location

SW-03

Sampling Location Description:

SW Creek Portion

Sample Location ID:

SW-03

Sheet 1 of 1

Sample Method: Grab

Depth of Water Body: 4 ft

Width of Water Body: 30 ft

Water Body Location SW

Sampling Date/Time

Start

Finish

DATE

DATE

TIME

TIME

Water Quality Parameters

Surface Conditions: Good

Weather: Sunny

Description of Surface Water

Time (hrs)	pH (pH units)	Cond. (mS/cm)	Turb. (ntu)	DO (mg/L)	Temp (°C)	ORP (mV)

1340	8.23	0.224	0.0	8.52	17.66	102

Clear, calm

Total Quantity of Water Removed (gal):

Samplers:

Sampling Date:

N. Robinson

5/24/23

Sampling Time:

Split Sample With:

Sample Type:

1345

N/A

Grab

SITE NAME: Korkay

SITE ID.: 518014

INSPECTOR: HV

DATE/TIME: 5/24/23 0745

WELL ID.: MW-16D

MONITORING WELL FIELD INSPECTION LOG

WELL VISIBLE? (If not, provide directions below)

YES	NO
yes	

WELL COORDINATES? NYTM X _____ NYTM Y _____

PDOP Reading from Trimble Pathfinder: _____ Satellites: _____

GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
yes	
yes	

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-16D

YES	NO
yes	
yes	
yes	

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED:

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE:

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

ASW

YES	NO
yes	
yes	
yes	

0.0ppm (DID)
Flush
Steel

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

N/A	
N/A	
N/A	
N/A	
No	
yes	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

MEASURE WELL DIAMETER (Inches):

WELL CASING MATERIAL:

PHYSICAL CONDITION OF VISIBLE WELL CASING:

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES

54.54
30.86
2
DVC
Good
N/A
N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by foot + vehicle.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Pavement in SE area onsite.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014

INSPECTOR: Hy

DATE/TIME: 5/23/23 1640

WELL ID.: MW-20

MONITORING WELL FIELD INSPECTION LOG

WELL VISIBLE? (If not, provide directions below)

YES	NO
yes	

WELL COORDINATES? NYTM X _____ NYTM Y _____

PDOP Reading from Trimble Pathfinder: _____ Satellites: _____

GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
yes	
yes	

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-20

YES	NO
yes	
yes	
yes	

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

ASW

YES	NO
yes	
yes	
yes	

0.00ppm (PID)
Flush
Steel

HEADSPACE READING (ppm) AND INSTRUMENT USED

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE:

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

N/A	
N/A	
N/A	
N/A	
No	
yes	

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

MEASURE WELL DIAMETER (Inches):

WELL CASING MATERIAL:

PHYSICAL CONDITION OF VISIBLE WELL CASING:

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES

13.17	
10.74	
2	
PVC	
Good	
N/A	
N/A	

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by foot.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Located on sidewalk of Second Avenue. Near intersection of
Second Ave + W. Main street.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014

INSPECTOR: HV

DATE/TIME: 5/23/03 1500

WELL ID.: MW-24

MONITORING WELL FIELD INSPECTION LOG

WELL VISIBLE? (If not, provide directions below)

YES	NO
yes	

WELL COORDINATES? NYTM X _____ NYTM Y _____

PDOP Reading from Trimble Pathfinder: _____ Satelites: _____

GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
yes	
yes	

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back).....

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-24

ASW

YES	NO
yes	
yes	
yes	

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

1-2 ppm (PID)
Fluoride
Steel

HEADSPACE READING (ppm) AND INSTRUMENT USED.....

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE:

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

YES	N/A
N/A	
N/A	
N/A	
NO	
yes	

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

MEASURE WELL DIAMETER (Inches):

WELL CASING MATERIAL:

PHYSICAL CONDITION OF VISIBLE WELL CASING:

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES.....

11.22
10.29
2
PVC
Good
N/A
N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by foot + vehicle.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

pavement behind property on W. Main street.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014

INSPECTOR: HV

DATE/TIME: 5/23/23 1350

WELL ID.: MW-15S

MONITORING WELL FIELD INSPECTION LOG

WELL VISIBLE? (If not, provide directions below)

YES	NO
YES	

WELL COORDINATES? NYTM X _____ NYTM Y _____

PDOP Reading from Trimble Pathfinder: _____ Satellites: _____

GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
YES	
YES	

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back).....

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-15S

YES	NO
YES	
YES	
YES	

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED.....

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE:

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

ASW
YES NO
YES
YES
YES
DDM (PID)
Fiberglass
Steel

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

N/A	
N/A	
N/A	
N/A	
No	
YES	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

MEASURE WELL DIAMETER (Inches):

WELL CASING MATERIAL:

PHYSICAL CONDITION OF VISIBLE WELL CASING:

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES.....

9.90	
3.70	
2	
PVC	
Good	
N/A	
N/A	

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by foot + vehicle

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Grass in northmost onsite portion (East of MW-15D)

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014

INSPECTOR: HY

DATE/TIME: 5/23/23 1248

WELL ID.: MW-17

MONITORING WELL FIELD INSPECTION LOG

WELL VISIBLE? (If not, provide directions below)

YES	NO
yes	

WELL COORDINATES? NYTM X _____ NYTM Y _____

PDOP Reading from Trimble Pathfinder: _____ Satellites: _____

GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
yes	
yes	

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-17

ASW

YES	NO
yes	
yes	
yes	

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

8.7ppm
Flush
Steel

HEADSPACE READING (ppm) AND INSTRUMENT USED

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE:

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

N/A	
N/A	
N/A	
N/A	
NO	
yes	

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

MEASURE WELL DIAMETER (Inches):

WELL CASING MATERIAL:

PHYSICAL CONDITION OF VISIBLE WELL CASING:

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES

14.44
3.85
2
PVC
Good
N/A
N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by foot or vehicle.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Grass in NE corner of onSite area

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014

INSPECTOR: HY

DATE/TIME: 5/23/23 1130

WELL ID.: MW-18

MONITORING WELL FIELD INSPECTION LOG

WELL VISIBLE? (If not, provide directions below)

YES	NO
yes	

WELL COORDINATES? NYTM X _____ NYTM Y _____

PDOP Reading from Trimble Pathfinder: _____ Satellites: _____

GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
yes	
yes	

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-18

ASW	
YES	NO
yes	
yes	
yes	

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

0.7 ppm (PID)
Flush
Steel

HEADSPACE READING (ppm) AND INSTRUMENT USED

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE:

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

N/A	
N/A	
N/A	
N/A	
NO	
yes	

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

MEASURE WELL DIAMETER (Inches):

WELL CASING MATERIAL:

PHYSICAL CONDITION OF VISIBLE WELL CASING:

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES

14.48
5.02
2
PVC
Good
N/A
N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by foot + vehicle.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Grassy area (NW portion onsite).

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014

INSPECTOR: HY

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/23/23 1010

WELL ID.: VEW-1

WELL VISIBLE? (If not, provide directions below)

~~YES~~	NO
YES	

WELL COORDINATES? NYTM X _____ NYTM Y _____

PDOP Reading from Trimble Pathfinder: _____ Satellites: _____

GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
YES	
YES	

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: VEW-1

ASW	
YES	NO
YES	
YES	
YES	

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

1.7 ppm	
Flush	
Steel	

HEADSPACE READING (ppm) AND INSTRUMENT USED

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE:

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

N/A	
N/A	
N/A	
N/A	
NO	
YES	

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

MEASURE WELL DIAMETER (Inches):

WELL CASING MATERIAL:

PHYSICAL CONDITION OF VISIBLE WELL CASING:

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES

8.14	
5.45	
2	
PVC	
Good	
N/A	
N/A	

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by foot or vehicle.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Grassy area (eastern portion of onsite)

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014

INSPECTOR: Hy

DATE/TIME: 5/23/23 0900

WELL ID.: VIEW-2

MONITORING WELL FIELD INSPECTION LOG

WELL VISIBLE? (If not, provide directions below)

☒ YES	☐ NO

WELL COORDINATES? NYTM X _____ NYTM Y _____

PDOP Reading from Trimble Pathfinder: _____ Satellites: _____

GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
yes	
yes	

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: VIEW-2

ASW

YES	NO
yes	
yes	
yes	

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

0.2 ppm (PID)
Flush
Steel

HEADSPACE READING (ppm) AND INSTRUMENT USED

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE:

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

N/A	
N/A	
N/A	
N/A	
NO	
yes	

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

MEASURE WELL DIAMETER (Inches):

WELL CASING MATERIAL:

PHYSICAL CONDITION OF VISIBLE WELL CASING:

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES

8.56
5.54
2
PVC
Good
N/A
N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by foot + vehicle. Grassy area.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Located in eastern portion of onsite area (in grass)

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014

INSPECTOR: HY

DATE/TIME: 5/23/23 - 0756

WELL ID.: MW-23

MONITORING WELL FIELD INSPECTION LOG

WELL VISIBLE? (If not, provide directions below)

☒ YES	☐ NO

WELL COORDINATES? NYTM X _____ NYTM Y _____

PDOP Reading from Trimble Pathfinder: _____ Satellites: _____

GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
yes	
yes	

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-23

ASW	
YES	NO
yes	
yes	
yes	

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED: 1.1 ppm (PID)

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable) Flush

PROTECTIVE CASING MATERIAL TYPE: Steel

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

N/A	
N/A	
N/A	
N/A	
NO	
yes	

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): 14.29

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): 12.29

MEASURE WELL DIAMETER (Inches): 2

WELL CASING MATERIAL: PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING: Good

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE N/A

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES: N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by foot or by vehicle. Open grass area.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Located in grass adjacent to sidewalk on West Main Street.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014

INSPECTOR: LC

DATE/TIME: 5/23/23 1615

WELL ID.: MW-85

MONITORING WELL FIELD INSPECTION LOG

WELL VISIBLE? (If not, provide directions below)

YES	NO
yes	

WELL COORDINATES? NYTM X _____ NYTM Y _____

PDOP Reading from Trimble Pathfinder: _____ Satellites: _____

GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
yes	
yes	

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-85

YES	NO
yes	
yes	
yes	

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

ASW
0.0ppm (PID)
Hush
Steel

HEADSPACE READING (ppm) AND INSTRUMENT USED

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE:

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

	N/A
	N/A
	N/A
	N/A
	NO
	yes

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

MEASURE WELL DIAMETER (Inches):

WELL CASING MATERIAL:

PHYSICAL CONDITION OF VISIBLE WELL CASING:

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES

10.59
5.78
2
PVC
Good
N/A
N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by foot + vehicle.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Pavement East of residence on W. Main (North of MW-8D).

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014

INSPECTOR: LC

DATE/TIME: 5/23/23 - 15:43

WELL ID.: MW-21

MONITORING WELL FIELD INSPECTION LOG

WELL VISIBLE? (If not, provide directions below)

YES	NO
yes	

WELL COORDINATES? NYTM X _____ NYTM Y _____

PDOP Reading from Trimble Pathfinder: _____ Satellites: _____

GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
yes	
yes	

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back).....

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-21

ASW	
YES	NO
yes	
yes	
yes	

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

0.1 ppm (PID)	
Flush	
Steel	

HEADSPACE READING (ppm) AND INSTRUMENT USED.....

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE:

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

	N/A
	N/A
	N/A
	N/A
	NO
yes	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

MEASURE WELL DIAMETER (Inches):

WELL CASING MATERIAL:

PHYSICAL CONDITION OF VISIBLE WELL CASING:

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES.....

11.18	
6.21	
2	
PVC	
Good	
N/A	
N/A	

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by foot

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Grass in front of residence on W. Main St.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014

INSPECTOR: LC

DATE/TIME: 5/23 - 11:05

WELL ID.: K-3

MONITORING WELL FIELD INSPECTION LOG

WELL VISIBLE? (If not, provide directions below)

YES	NO
yes	

WELL COORDINATES? NYTM X _____ NYTM Y _____

PDOP Reading from Trimble Pathfinder: _____ Satellites: _____

GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
yes	
yes	

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: K-3

YES	NO
yes	
yes	
yes	

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED:

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE:

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

ASW
D.02pm (PID)
Flush
Steel

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

	N/A
	N/A
	N/A
	N/A
	NO
yes	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

MEASURE WELL DIAMETER (Inches):

WELL CASING MATERIAL:

PHYSICAL CONDITION OF VISIBLE WELL CASING:

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES:

16.54
5.88
2
PVC
C7009
N/A
N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by foot or vehicle.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

SW corner onsite

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014

INSPECTOR: LC

DATE/TIME: 5/23 - 13:05

WELL ID.: MW-22

MONITORING WELL FIELD INSPECTION LOG

WELL VISIBLE? (If not, provide directions below)

YES	NO
YES	

WELL COORDINATES? NYTM X NYTM Y

PDOP Reading from Trimble Pathfinder: Satellites:

GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
YES	
YES	

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back).....

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-22

YES	NO
YES	
YES	
YES	

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED.....

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE:

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

0.4 ppm (PID)
PUSH
STEEL

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

YES	N/A
	N/A
	N/A
	N/A
	NO
YES	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

MEASURE WELL DIAMETER (Inches):

WELL CASING MATERIAL:

PHYSICAL CONDITION OF VISIBLE WELL CASING:

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES.....

9.25
4.00
2
PVC
Good
N/A
N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by foot or vehicle

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Western fence line onsite

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014

INSPECTOR: LC

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/23 - 10:05

WELL ID.: VEW-4

WELL VISIBLE? (If not, provide directions below)

YES	NO
☒	☐

WELL COORDINATES? NYTM X _____ NYTM Y _____

PDOP Reading from Trimble Pathfinder: _____ Satellites: _____

GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
☒	☐
☒	☐

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back).....

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: VEW-4

ASW

YES	NO
☒	☐
☒	☐
☒	☐

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED.....

0.8 ppm - Min. 3000

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

Flush
Steel

PROTECTIVE CASING MATERIAL TYPE:

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

<u>N/A</u>	☐
<u>N/A</u>	☐
<u>N/A</u>	☒
<u>N/A</u>	☒
<u>NO</u>	☒
<u>Yes</u>	☐

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

8.25

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

6.29

MEASURE WELL DIAMETER (Inches):

11.25

WELL CASING MATERIAL:

DVC

PHYSICAL CONDITION OF VISIBLE WELL CASING:

Good

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

N/A

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES.....

N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by foot + vehicle

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

SW corner onsite

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014
 INSPECTOR: LC
 DATE/TIME: 5/23/23 0800
 WELL ID.: ASW

MONITORING WELL FIELD INSPECTION LOG

WELL VISIBLE? (If not, provide directions below)

YES	NO
<u>YES</u>	

WELL COORDINATES? NYTM X _____ NYTM Y _____

PDOP Reading from Trimble Pathfinder: _____ Satellites: _____

GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
<u>YES</u>	
<u>YES</u>	

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back).....

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: ASW

YES	NO
<u>YES</u>	
<u>YES</u>	
<u>YES</u>	

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

13.3 ppm (PID)
Fltsh
Steel

HEADSPACE READING (ppm) AND INSTRUMENT USED.....

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE:

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

N/A	
N/A	
N/A	
N/A	
NO	
<u>YES</u>	

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

MEASURE WELL DIAMETER (Inches):

WELL CASING MATERIAL:

PHYSICAL CONDITION OF VISIBLE WELL CASING:

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES.....

11.67
5.98
2
PVC
Good
N/A
N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by foot + vehicle

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

SW corner onsite.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014

MONITORING WELL FIELD INSPECTION LOG

INSPECTOR:

DATE/TIME: 5/23 - 09:45

WELL ID.: VEW3

WELL VISIBLE? (If not, provide directions below) Yes

YES	NO
☒	☐

WELL COORDINATES? NYTM X _____ NYTM Y _____

PDOP Reading from Trimble Pathfinder: _____ Satellites: _____

GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE? Yes

YES	NO
☒	☐
☒	☐

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back).....

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: VEW-3

ASW

YES	NO
☒	☐
☒	☐
☒	☐

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED.....

6.5 - Mini RAE 3000

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

Flush
Steel

PROTECTIVE CASING MATERIAL TYPE:

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

☒	☐
☒	☐
☒	☐
☒	☐
☒	☐

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

8.48

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

6.35

MEASURE WELL DIAMETER (Inches):

2

WELL CASING MATERIAL:

PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING:

Good

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

N/A

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES.....

N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by foot or vehicle.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Grass SW corner onsite

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014

INSPECTOR: LC

MONITORING WELL FIELD INSPECTION LOG

DATE/TIME: 5/13 - 11:00

WELL ID.: K-2

WELL VISIBLE? (If not, provide directions below)

YES	NO
☒	☐

WELL COORDINATES? NYTM X _____ NYTM Y _____

PDOP Reading from Trimble Pathfinder: _____ Satellites: _____

GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
☒	☐
☒	☐

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: K-2

YES	NO
☒	☐
☒	☐
☒	☐

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE:

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

0.1 - Minutiae 3000

FUSH
Steel

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

N/A	
N/A	
N/A	
N/A	
N/A	
NO	
YES	

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

MEASURE WELL DIAMETER (Inches):

WELL CASING MATERIAL:

PHYSICAL CONDITION OF VISIBLE WELL CASING:

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES

14.15
5.69
7
PVC
Good
N/A
N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by foot or vehicle

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Grass (SW) onsite

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014

INSPECTOR: LC

DATE/TIME: 5/24 - 0900

WELL ID.: MW-15D

MONITORING WELL FIELD INSPECTION LOG

WELL VISIBLE? (If not, provide directions below)

YES	NO
YES	

WELL COORDINATES? NYTM X _____ NYTM Y _____

PDOP Reading from Trimble Pathfinder: _____ Satellites: _____

GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
YES	
YES	

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-15D

ASW

YES	NO
YES	
YES	
YES	

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED:

0.0 ppm (PD)
Flush
Steel

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE:

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

N/A	
N/A	
N/A	
N/A	
NO	
YES	

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

40.04

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

29.72

MEASURE WELL DIAMETER (Inches):

2

WELL CASING MATERIAL:

DVC

PHYSICAL CONDITION OF VISIBLE WELL CASING:

Good

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

N/A

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES

N/A

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by foot + vehicle.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Grass area Northmost onsite (West of MW-155).

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

Sketch

SITE NAME: Korkay

SITE ID.: 518014

MONITORING WELL FIELD INSPECTION LOG

INSPECTOR: LC

DATE/TIME: 5/23 - 17:10

WELL ID.: MW-19

WELL VISIBLE? (If not, provide directions below)

YES	NO
☒	☐

WELL COORDINATES? NYTM X _____ NYTM Y _____

PDOP Reading from Trimble Pathfinder: _____ Satellites: _____

GPS Method (circle) Trimble And/Or Magellan

WELL I.D. VISIBLE?

YES	NO
☒	☐
☒	☐

WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back).....

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-19

YES	NO
☒	☐
☒	☐
☒	☐

SURFACE SEAL PRESENT?

SURFACE SEAL COMPETENT? Concrete is cracked and heaved at grade, stick up broken off.

PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)

HEADSPACE READING (ppm) AND INSTRUMENT USED.....

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable)

PROTECTIVE CASING MATERIAL TYPE:

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches):

0.8 ppm - MIN RAE 3000
FLUSH
STEEL

LOCK PRESENT?

LOCK FUNCTIONAL?

DID YOU REPLACE THE LOCK?

IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes, describe below)

WELL MEASURING POINT VISIBLE?

☐	☒
☐	☒
☐	☒
☒	☒
☒	☒

MEASURE WELL DEPTH FROM MEASURING POINT (Feet):

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

MEASURE WELL DIAMETER (Inches):

WELL CASING MATERIAL:

PHYSICAL CONDITION OF VISIBLE WELL CASING:

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES.....

<u>9.75</u>
<u>5.18</u>
<u>2</u>
<u>PVC</u>
<u>Good</u>
<u>N/A</u>
<u>N/A</u>

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Accessible by foot or vehicle.

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.)

AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Southmost Well on Second Avenue - Sidewalk in front of residence.

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT

(e.g. Gas station, salt pile, etc.):

N/A

REMARKS:

Sketch

Appendix C

Laboratory Reports

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June 14, 2023

Joshua Oliver
NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202

Project Location: Broadalbin, NY
Client Job Number:
Project Number: 518014
Laboratory Work Order Number: 23E3537

Enclosed are results of analyses for samples as received by the laboratory on May 25, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle K. Stuckey
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202
ATTN: Joshua Oliver

REPORT DATE: 6/14/2023

PURCHASE ORDER NUMBER: 141733

PROJECT NUMBER: 518014

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23E3537

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Broadalbin, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
518014-MW-23	23E3537-01	Ground Water		SW-846 8081B SW-846 8260D SW-846 8270E	
518014-ASW	23E3537-02	Ground Water		SW-846 8081B SW-846 8260D SW-846 8270E	
518014-VEW-2	23E3537-03	Ground Water		SW-846 8081B SW-846 8260D SW-846 8270E	
518014-VEW-3	23E3537-04	Ground Water		SW-846 8081B SW-846 8260D SW-846 8270E	
518014-VEW-4	23E3537-05	Ground Water		SW-846 8081B SW-846 8260D SW-846 8270E	
518014-VEW-1	23E3537-06	Ground Water		SW-846 8081B SW-846 8260D SW-846 8270E	
518014-K-2	23E3537-07	Ground Water		SW-846 8081B SW-846 8260D SW-846 8270E	
518014-MW-18	23E3537-08	Ground Water		SW-846 8081B SW-846 8260D SW-846 8270E	
518014-MW-22	23E3537-09	Ground Water		SW-846 8081B SW-846 8260D SW-846 8270E	
518014-MW-17	23E3537-10	Ground Water		SW-846 8081B SW-846 8260D SW-846 8270E	
518014-K-3	23E3537-11	Ground Water		SW-846 8081B SW-846 8260D SW-846 8270E	
518014-MW-15S	23E3537-12	Ground Water		SW-846 8081B SW-846 8260D SW-846 8270E	
518014-MW-21	23E3537-13	Ground Water		SW-846 8081B SW-846 8260D SW-846 8270E	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202
ATTN: Joshua Oliver

REPORT DATE: 6/14/2023

PURCHASE ORDER NUMBER: 141733

PROJECT NUMBER: 518014

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23E3537

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Broadalbin, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
518014-MW-24	23E3537-14	Ground Water		SW-846 8081B	
				SW-846 8260D	
				SW-846 8270E	
518014-MW-8S	23E3537-15	Ground Water		SW-846 8081B	
				SW-846 8260D	
				SW-846 8270E	
518014-DUP-1-GW	23E3537-16	Ground Water		SW-846 8081B	
				SW-846 8260D	
				SW-846 8270E	
518014-MW-20	23E3537-17	Ground Water		SW-846 8081B	
				SW-846 8260D	
				SW-846 8270E	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 8081B**Qualifications:****MS-15**

Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.

Analyte & Samples(s) Qualified:**Alachlor**

B341714-MS1, B341714-MSD1

Alachlor [2C]

B341714-MS1, B341714-MSD1

P-02

Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

Analyte & Samples(s) Qualified:**Chlordane [2C]**

23E3537-10[518014-MW-17]

Hexachlorobenzene [2C]

23E3537-01[518014-MW-23]

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**Aldrin [2C]**

23E3537-01[518014-MW-23], B341588-BLK1, B341588-BS1, B341588-BSD1

Endosulfan Sulfate

23E3537-01[518014-MW-23], B341588-BLK1, B341588-BS1, B341588-BSD1

Endrin Aldehyde

23E3537-01[518014-MW-23], B341588-BLK1, B341588-BS1, B341588-BSD1

Heptachlor Epoxide

23E3537-01[518014-MW-23], B341588-BLK1, B341588-BS1, B341588-BSD1

Heptachlor Epoxide [2C]

23E3537-01[518014-MW-23], B341588-BLK1, B341588-BS1, B341588-BSD1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:**4,4'-DDD**

B341588-BS1, B341588-BSD1

4,4'-DDT

B341588-BS1, B341588-BSD1

Methoxychlor

B341588-BS1, B341588-BSD1

SW-846 8260D**Qualifications:****MS-07A**

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**Bromoform**

23E3537-09[518014-MW-22], B341914-MS1, B341914-MSD1

Methyl Acetate

23E3537-09[518014-MW-22], B341914-MS1, B341914-MSD1

Methyl tert-Butyl Ether (MTBE)

23E3537-09[518014-MW-22], B341914-MS1, B341914-MSD1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

MS-24

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

Analyte & Samples(s) Qualified:**1,4-Dioxane**

B341914-MSD1

Chloromethane

B341914-MSD1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

23E3537-02[518014-ASW]

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**1,2-Dibromo-3-chloropropane (DBCP)**

23E3537-01[518014-MW-23], 23E3537-02[518014-ASW], 23E3537-03[518014-VEW-2], 23E3537-04[518014-VEW-3], 23E3537-05[518014-VEW-4], 23E3537-06[518014-VEW-1], 23E3537-07[518014-K-2], 23E3537-08[518014-MW-18], 23E3537-09[518014-MW-22], 23E3537-10[518014-MW-17], 23E3537-11[518014-K-3], 23E3537-12[518014-MW-15S], 23E3537-13[518014-MW-21], 23E3537-14[518014-MW-24], 23E3537-15[518014-MW-8S], 23E3537-16[518014-DUP-1-GW], 23E3537-17[518014-MW-20], B341914-BLK1, B341914-BS1, B341914-BSD1, B341914-MS1, B341914-MSD1, B341916-BLK1, B341916-BS1, B341916-BSD1, S088488-CCV1, S088490-CCV1

Bromoform

23E3537-01[518014-MW-23], 23E3537-02[518014-ASW], 23E3537-03[518014-VEW-2], 23E3537-04[518014-VEW-3], 23E3537-05[518014-VEW-4], 23E3537-06[518014-VEW-1], 23E3537-07[518014-K-2], 23E3537-08[518014-MW-18], 23E3537-09[518014-MW-22], 23E3537-10[518014-MW-17], 23E3537-11[518014-K-3], 23E3537-12[518014-MW-15S], 23E3537-13[518014-MW-21], 23E3537-14[518014-MW-24], 23E3537-15[518014-MW-8S], 23E3537-16[518014-DUP-1-GW], 23E3537-17[518014-MW-20], B341914-BLK1, B341914-BS1, B341914-BSD1, B341914-MS1, B341914-MSD1, B341916-BLK1, B341916-BS1, B341916-BSD1, S088488-CCV1, S088490-CCV1

Methyl Acetate

23E3537-01[518014-MW-23], 23E3537-02[518014-ASW], 23E3537-03[518014-VEW-2], 23E3537-04[518014-VEW-3], 23E3537-05[518014-VEW-4], 23E3537-06[518014-VEW-1], 23E3537-07[518014-K-2], 23E3537-08[518014-MW-18], 23E3537-09[518014-MW-22], 23E3537-10[518014-MW-17], 23E3537-11[518014-K-3], 23E3537-12[518014-MW-15S], 23E3537-13[518014-MW-21], 23E3537-14[518014-MW-24], B341914-BLK1, B341914-BS1, B341914-BSD1, B341914-MS1, B341914-MSD1, S088488-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**Bromomethane**

B341914-BS1, B341914-BSD1, B341914-MS1, B341914-MSD1, S088488-CCV1

Chloromethane

B341914-BS1, B341914-BSD1, B341914-MS1, B341914-MSD1, S088488-CCV1

SW-846 8270E**Qualifications:****L-04**

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**Caprolactam**

23E3537-01[518014-MW-23], 23E3537-02[518014-ASW], 23E3537-03[518014-VEW-2], 23E3537-04[518014-VEW-3], 23E3537-05[518014-VEW-4], 23E3537-06[518014-VEW-1], 23E3537-07[518014-K-2], 23E3537-08[518014-MW-18], 23E3537-09[518014-MW-22], 23E3537-10[518014-MW-17], 23E3537-11[518014-K-3], 23E3537-12[518014-MW-15S], 23E3537-13[518014-MW-21], 23E3537-14[518014-MW-24], 23E3537-15[518014-MW-8S], 23E3537-16[518014-DUP-1-GW], 23E3537-17[518014-MW-20], B341710-BLK1, B341710-BS1, B341710-BSD1

Hexachloroethane

23E3537-01[518014-MW-23], 23E3537-02[518014-ASW], 23E3537-03[518014-VEW-2], 23E3537-04[518014-VEW-3], 23E3537-05[518014-VEW-4], 23E3537-06[518014-VEW-1], 23E3537-07[518014-K-2], 23E3537-08[518014-MW-18], 23E3537-09[518014-MW-22], 23E3537-10[518014-MW-17], 23E3537-11[518014-K-3], 23E3537-12[518014-MW-15S], 23E3537-13[518014-MW-21], 23E3537-14[518014-MW-24], 23E3537-15[518014-MW-8S], 23E3537-16[518014-DUP-1-GW], 23E3537-17[518014-MW-20], B341710-BLK1, B341710-BS1, B341710-BSD1

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MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:**Hexachloroethane**

23E3537-09[518014-MW-22], B341710-MS1, B341710-MSD1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:**Caprolactam**

B341710-MSD1

MS-23

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:**3,3-Dichlorobenzidine**

23E3537-09[518014-MW-22], B341710-MSD1

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:**3,3-Dichlorobenzidine**

B341710-MS1

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

23E3537-12[518014-MW-15S], 23E3537-13[518014-MW-21], 23E3537-14[518014-MW-24], 23E3537-15[518014-MW-8S], 23E3537-16[518014-DUP-1-GW], 23E3537-17[518014-MW-20], S089061-CCV1

4,6-Dinitro-2-methylphenol

23E3537-12[518014-MW-15S], 23E3537-13[518014-MW-21], 23E3537-14[518014-MW-24], 23E3537-15[518014-MW-8S], 23E3537-16[518014-DUP-1-GW], 23E3537-17[518014-MW-20], S089061-CCV1

Bis(2-Ethylhexyl)phthalate

23E3537-12[518014-MW-15S], 23E3537-13[518014-MW-21], 23E3537-14[518014-MW-24], 23E3537-15[518014-MW-8S], 23E3537-16[518014-DUP-1-GW], 23E3537-17[518014-MW-20], S089061-CCV1

Di-n-octylphthalate

23E3537-12[518014-MW-15S], 23E3537-13[518014-MW-21], 23E3537-14[518014-MW-24], 23E3537-15[518014-MW-8S], 23E3537-16[518014-DUP-1-GW], 23E3537-17[518014-MW-20], S089061-CCV1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**Butylbenzylphthalate**

23E3537-01[518014-MW-23], 23E3537-02[518014-ASW], 23E3537-03[518014-VEW-2], 23E3537-04[518014-VEW-3], 23E3537-05[518014-VEW-4], 23E3537-06[518014-VEW-1], 23E3537-07[518014-K-2], 23E3537-08[518014-MW-18], 23E3537-09[518014-MW-22], 23E3537-10[518014-MW-17], 23E3537-11[518014-K-3], B341710-BLK1, B341710-BS1, B341710-BSD1, B341710-MS1, B341710-MSD1, S088808-CCV1

Di-n-octylphthalate

23E3537-01[518014-MW-23], 23E3537-02[518014-ASW], 23E3537-03[518014-VEW-2], 23E3537-04[518014-VEW-3], 23E3537-05[518014-VEW-4], 23E3537-06[518014-VEW-1], 23E3537-07[518014-K-2], 23E3537-08[518014-MW-18], 23E3537-09[518014-MW-22], 23E3537-10[518014-MW-17], 23E3537-11[518014-K-3], B341710-BLK1, B341710-BS1, B341710-BSD1, B341710-MS1, B341710-MSD1, S088808-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**3-Nitroaniline**

23E3537-01[518014-MW-23], 23E3537-02[518014-ASW], 23E3537-03[518014-VEW-2], 23E3537-04[518014-VEW-3], 23E3537-05[518014-VEW-4], 23E3537-06[518014-VEW-1], 23E3537-07[518014-K-2], 23E3537-08[518014-MW-18], 23E3537-09[518014-MW-22], 23E3537-10[518014-MW-17], 23E3537-11[518014-K-3], B341710-BLK1, B341710-BS1, B341710-BSD1, B341710-MS1, B341710-MSD1, S088808-CCV1

4-Nitroaniline

23E3537-01[518014-MW-23], 23E3537-02[518014-ASW], 23E3537-03[518014-VEW-2], 23E3537-04[518014-VEW-3], 23E3537-05[518014-VEW-4], 23E3537-06[518014-VEW-1], 23E3537-07[518014-K-2], 23E3537-08[518014-MW-18], 23E3537-09[518014-MW-22], 23E3537-10[518014-MW-17], 23E3537-11[518014-K-3], B341710-BLK1, B341710-BS1, B341710-BSD1, B341710-MS1, B341710-MSD1, S088808-CCV1

V-35

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Butylbenzylphthalate**

23E3537-12[518014-MW-15S], 23E3537-13[518014-MW-21], 23E3537-14[518014-MW-24], 23E3537-15[518014-MW-8S], 23E3537-16[518014-DUP-1-GW], 23E3537-17[518014-MW-20], S089061-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-23

Sampled: 5/23/2023 08:33

Sample ID: 23E3537-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.4	50	2.0	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Bromoform	ND	1.0	0.41	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
2-Butanone (MEK)	2.8	20	1.7	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 13:58	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
1,2-Dichlorobenzene	2.6	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
1,4-Dichlorobenzene	0.45	1.0	0.13	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
cis-1,2-Dichloroethylene	1.3	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Ethylbenzene	7.1	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Isopropylbenzene (Cumene)	3.9	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Methyl Cyclohexane	1.2	1.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Tetrachloroethylene	0.98	1.0	0.17	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Toluene	0.81	1.0	0.22	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 13:58	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-23

Sampled: 5/23/2023 08:33

Sample ID: 23E3537-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF
Xylenes (total)	36	1.0	1.0	µg/L	1		SW-846 8260D	6/1/23	6/2/23 13:58	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.2	70-130	
Toluene-d8	98.4	70-130	
4-Bromofluorobenzene	93.3	70-130	

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-23

Sampled: 5/23/2023 08:33

Sample ID: 23E3537-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	18	1.5	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Benzaldehyde	ND	9.1	0.66	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Biphenyl	ND	18	0.84	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Caprolactam	ND	9.1	0.65	µg/L	1	L-04	SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Acenaphthene	ND	4.5	0.71	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Acenaphthylene	ND	4.5	0.58	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Acetophenone	ND	9.1	0.46	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Anthracene	ND	4.5	0.49	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Benzo(a)anthracene	ND	4.5	0.34	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Benzo(a)pyrene	ND	4.5	0.39	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Benzo(b)fluoranthene	ND	4.5	0.29	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Benzo(g,h,i)perylene	ND	4.5	0.47	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Benzo(k)fluoranthene	ND	4.5	0.42	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Bis(2-chloroethoxy)methane	ND	9.1	0.52	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Bis(2-chloroethyl)ether	ND	9.1	0.42	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Bis(2-chloroisopropyl)ether	ND	9.1	0.68	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.1	0.29	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
4-Bromophenylphenylether	ND	9.1	0.65	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Butylbenzylphthalate	ND	9.1	0.36	µg/L	1	V-05	SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Carbazole	ND	9.1	0.42	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
4-Chloroaniline	ND	9.1	4.7	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
4-Chloro-3-methylphenol	ND	9.1	0.58	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
2-Chloronaphthalene	ND	9.1	0.74	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
2-Chlorophenol	ND	9.1	0.37	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
4-Chlorophenylphenylether	ND	9.1	0.79	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Chrysene	ND	4.5	0.42	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Dibenz(a,h)anthracene	ND	4.5	0.43	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Dibenzofuran	ND	4.5	0.78	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Di-n-butylphthalate	ND	9.1	0.46	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
3,3-Dichlorobenzidine	ND	9.1	0.42	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
2,4-Dichlorophenol	ND	9.1	0.43	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Diethylphthalate	ND	9.1	0.51	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
2,4-Dimethylphenol	ND	9.1	0.37	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Dimethylphthalate	ND	9.1	0.40	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
4,6-Dinitro-2-methylphenol	ND	18	2.1	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
2,4-Dinitrophenol	ND	18	1.2	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
2,4-Dinitrotoluene	ND	9.1	0.32	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
2,6-Dinitrotoluene	ND	9.1	0.50	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Di-n-octylphthalate	ND	9.1	0.30	µg/L	1	V-05	SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Fluoranthene	ND	4.5	0.51	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Fluorene	ND	4.5	0.69	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Hexachlorobenzene	ND	9.1	0.66	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Hexachlorobutadiene	ND	9.1	1.1	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Hexachlorocyclopentadiene	ND	9.1	2.6	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-23

Sampled: 5/23/2023 08:33

Sample ID: 23E3537-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	9.1	1.1	µg/L	1	L-04	SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Indeno(1,2,3-cd)pyrene	ND	4.5	0.43	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Isophorone	ND	9.1	0.49	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
2-Methylnaphthalene	ND	4.5	0.85	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
2-Methylphenol	ND	9.1	0.42	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
3/4-Methylphenol	ND	9.1	0.44	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Naphthalene	ND	4.5	0.82	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
2-Nitroaniline	ND	9.1	0.45	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
3-Nitroaniline	ND	9.1	0.47	µg/L	1	V-20	SW-846 8270E	5/30/23	6/6/23 23:21	BGL
4-Nitroaniline	ND	9.1	0.40	µg/L	1	V-20	SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Nitrobenzene	ND	9.1	0.61	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
2-Nitrophenol	ND	9.1	0.49	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
4-Nitrophenol	ND	18	1.2	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.1	0.44	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
N-Nitrosodi-n-propylamine	ND	9.1	0.60	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Pentachlorophenol	ND	9.1	0.44	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Phenanthrene	ND	4.5	0.65	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Phenol	ND	9.1	0.54	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Pyrene	ND	4.5	0.42	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.1	1.1	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
2,4,5-Trichlorophenol	ND	9.1	0.41	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
2,4,6-Trichlorophenol	ND	9.1	0.34	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:21	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	60.1		15-110				6/6/23 23:21			
Phenol-d6	38.3		15-110				6/6/23 23:21			
Nitrobenzene-d5	83.8		30-130				6/6/23 23:21			
2-Fluorobiphenyl	80.9		30-130				6/6/23 23:21			
2,4,6-Tribromophenol	97.1		15-110				6/6/23 23:21			
p-Terphenyl-d14	87.9		30-130				6/6/23 23:21			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-23

Sampled: 5/23/2023 08:33

Sample ID: 23E3537-01

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.031	µg/L	1		SW-846 8270E	5/26/23	5/30/23 17:27	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	25.7		15-110				5/30/23 17:27			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-23

Sampled: 5/23/2023 08:33

Sample ID: 23E3537-01

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.18	0.038	µg/L	1		SW-846 8081B	5/27/23	6/2/23 14:48	TG
Aldrin [2]	ND	0.045	0.0064	µg/L	1	R-05	SW-846 8081B	5/27/23	6/2/23 14:48	TG
alpha-BHC [2]	ND	0.045	0.0040	µg/L	1		SW-846 8081B	5/27/23	6/2/23 14:48	TG
beta-BHC [2]	ND	0.045	0.0057	µg/L	1		SW-846 8081B	5/27/23	6/2/23 14:48	TG
delta-BHC [2]	ND	0.045	0.0033	µg/L	1		SW-846 8081B	5/27/23	6/2/23 14:48	TG
gamma-BHC (Lindane) [2]	ND	0.027	0.0032	µg/L	1		SW-846 8081B	5/27/23	6/2/23 14:48	TG
Chlordane [2]	ND	0.18	0.046	µg/L	1		SW-846 8081B	5/27/23	6/2/23 14:48	TG
4,4'-DDD [2]	ND	0.036	0.0036	µg/L	1		SW-846 8081B	5/27/23	6/2/23 14:48	TG
4,4'-DDE [2]	ND	0.036	0.0041	µg/L	1		SW-846 8081B	5/27/23	6/2/23 14:48	TG
4,4'-DDT [2]	ND	0.036	0.0035	µg/L	1		SW-846 8081B	5/27/23	6/2/23 14:48	TG
Dieldrin [2]	ND	0.0018	0.0011	µg/L	1		SW-846 8081B	5/27/23	6/2/23 14:48	TG
Endosulfan I [2]	ND	0.045	0.0041	µg/L	1		SW-846 8081B	5/27/23	6/2/23 14:48	TG
Endosulfan II [2]	ND	0.071	0.0042	µg/L	1		SW-846 8081B	5/27/23	6/2/23 14:48	TG
Endosulfan sulfate [2]	ND	0.071	0.0039	µg/L	1		SW-846 8081B	5/27/23	6/2/23 14:48	TG
Endrin [2]	ND	0.071	0.0037	µg/L	1		SW-846 8081B	5/27/23	6/2/23 14:48	TG
Endrin aldehyde [2]	ND	0.071	0.0049	µg/L	1		SW-846 8081B	5/27/23	6/2/23 16:20	TG
Endrin ketone [2]	ND	0.071	0.0035	µg/L	1		SW-846 8081B	5/27/23	6/2/23 14:48	TG
Heptachlor [2]	ND	0.045	0.0055	µg/L	1		SW-846 8081B	5/27/23	6/2/23 14:48	TG
Heptachlor epoxide [2]	ND	0.045	0.0030	µg/L	1	R-05	SW-846 8081B	5/27/23	6/2/23 14:48	TG
Hexachlorobenzene [2]	0.021	0.045	0.0078	µg/L	1	P-02, J	SW-846 8081B	5/27/23	6/2/23 14:48	TG
Methoxychlor [2]	ND	0.45	0.0053	µg/L	1		SW-846 8081B	5/27/23	6/2/23 14:48	TG
Toxaphene [2]	ND	0.89	0.67	µg/L	1		SW-846 8081B	5/27/23	6/2/23 14:48	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	94.0		30-150				6/2/23 14:48			
Decachlorobiphenyl [2]	81.5		30-150				6/2/23 14:48			
Tetrachloro-m-xylene [1]	80.6		30-150				6/2/23 14:48			
Tetrachloro-m-xylene [2]	72.4		30-150				6/2/23 14:48			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-ASW

Sampled: 5/23/2023 08:38

Sample ID: 23E3537-02

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	500	20	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Benzene	ND	10	1.8	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Bromochloromethane	ND	10	2.8	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Bromodichloromethane	ND	5.0	1.6	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Bromoform	ND	10	4.1	µg/L	10	V-05	SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Bromomethane	ND	20	13	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
2-Butanone (MEK)	ND	200	17	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Carbon Disulfide	ND	50	16	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Carbon Tetrachloride	ND	50	1.6	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Chlorobenzene	ND	10	1.2	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Chlorodibromomethane	ND	5.0	2.0	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Chloroethane	ND	20	3.4	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Chloroform	ND	20	1.4	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Chloromethane	ND	20	5.0	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Cyclohexane	ND	50	18	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	8.5	µg/L	10	V-05	SW-846 8260D	6/1/23	6/2/23 19:45	MFF
1,2-Dibromoethane (EDB)	ND	5.0	1.6	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
1,2-Dichlorobenzene	26	10	1.3	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
1,3-Dichlorobenzene	ND	10	1.4	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
1,4-Dichlorobenzene	3.7	10	1.3	µg/L	10	J	SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Dichlorodifluoromethane (Freon 12)	ND	20	1.6	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
1,1-Dichloroethane	ND	10	1.4	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
1,2-Dichloroethane	ND	10	3.0	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
1,1-Dichloroethylene	ND	10	1.4	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
cis-1,2-Dichloroethylene	9.0	10	1.4	µg/L	10	J	SW-846 8260D	6/1/23	6/2/23 19:45	MFF
trans-1,2-Dichloroethylene	ND	10	1.7	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
1,2-Dichloropropane	ND	10	1.9	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
cis-1,3-Dichloropropene	ND	5.0	1.6	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
trans-1,3-Dichloropropene	ND	5.0	1.4	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
1,4-Dioxane	ND	500	180	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Ethylbenzene	80	10	2.2	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
2-Hexanone (MBK)	ND	100	12	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Isopropylbenzene (Cumene)	35	10	1.5	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Methyl Acetate	ND	10	6.1	µg/L	10	V-05	SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Methyl tert-Butyl Ether (MTBE)	ND	10	1.7	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Methyl Cyclohexane	13	10	1.6	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Methylene Chloride	ND	50	1.8	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
4-Methyl-2-pentanone (MIBK)	ND	100	13	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Styrene	ND	10	1.5	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
1,1,2,2-Tetrachloroethane	ND	5.0	1.4	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Tetrachloroethylene	2.0	10	1.7	µg/L	10	J	SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Toluene	7.6	10	2.2	µg/L	10	J	SW-846 8260D	6/1/23	6/2/23 19:45	MFF
1,2,3-Trichlorobenzene	ND	50	3.4	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
1,2,4-Trichlorobenzene	ND	10	3.0	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-ASW

Sampled: 5/23/2023 08:38

Sample ID: 23E3537-02

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	10	1.5	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
1,1,2-Trichloroethane	ND	10	1.9	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Trichloroethylene	ND	10	1.7	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Trichlorofluoromethane (Freon 11)	ND	20	1.5	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	2.1	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Vinyl Chloride	ND	20	2.4	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF
Xylenes (total)	600	10	10	µg/L	10		SW-846 8260D	6/1/23	6/2/23 19:45	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.7	70-130	
Toluene-d8	98.3	70-130	
4-Bromofluorobenzene	94.5	70-130	

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Sample ID: 23E3537-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	18	1.5	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Benzaldehyde	ND	9.2	0.66	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Biphenyl	1.6	18	0.85	µg/L	1	J	SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Caprolactam	ND	9.2	0.66	µg/L	1	L-04	SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Acenaphthene	ND	4.6	0.72	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Acenaphthylene	ND	4.6	0.59	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Acetophenone	ND	9.2	0.46	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Anthracene	ND	4.6	0.50	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Benzo(a)anthracene	ND	4.6	0.35	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Benzo(a)pyrene	ND	4.6	0.40	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Benzo(b)fluoranthene	ND	4.6	0.30	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Benzo(g,h,i)perylene	ND	4.6	0.48	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Benzo(k)fluoranthene	ND	4.6	0.42	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Bis(2-chloroethoxy)methane	ND	9.2	0.53	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Bis(2-chloroethyl)ether	ND	9.2	0.42	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Bis(2-chloroisopropyl)ether	ND	9.2	0.69	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.2	0.30	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
4-Bromophenylphenylether	ND	9.2	0.65	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Butylbenzylphthalate	ND	9.2	0.36	µg/L	1	V-05	SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Carbazole	ND	9.2	0.42	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
4-Chloroaniline	ND	9.2	4.8	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
4-Chloro-3-methylphenol	ND	9.2	0.58	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
2-Chloronaphthalene	ND	9.2	0.75	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
2-Chlorophenol	ND	9.2	0.38	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
4-Chlorophenylphenylether	ND	9.2	0.80	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Chrysene	ND	4.6	0.42	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Dibenz(a,h)anthracene	ND	4.6	0.44	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Dibenzofuran	ND	4.6	0.79	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Di-n-butylphthalate	ND	9.2	0.46	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
3,3-Dichlorobenzidine	ND	9.2	0.42	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
2,4-Dichlorophenol	ND	9.2	0.43	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Diethylphthalate	ND	9.2	0.51	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
2,4-Dimethylphenol	1.4	9.2	0.38	µg/L	1	J	SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Dimethylphthalate	ND	9.2	0.40	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
4,6-Dinitro-2-methylphenol	ND	18	2.1	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
2,4-Dinitrophenol	ND	18	1.2	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
2,4-Dinitrotoluene	ND	9.2	0.32	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
2,6-Dinitrotoluene	ND	9.2	0.50	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Di-n-octylphthalate	ND	9.2	0.30	µg/L	1	V-05	SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Fluoranthene	ND	4.6	0.52	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Fluorene	0.74	4.6	0.70	µg/L	1	J	SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Hexachlorobenzene	ND	9.2	0.66	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Hexachlorobutadiene	ND	9.2	1.1	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Hexachlorocyclopentadiene	ND	9.2	2.6	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-ASW

Sampled: 5/23/2023 08:38

Sample ID: 23E3537-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	9.2	1.1	µg/L	1	L-04	SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Indeno(1,2,3-cd)pyrene	ND	4.6	0.44	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Isophorone	ND	9.2	0.50	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
2-Methylnaphthalene	24	4.6	0.86	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
2-Methylphenol	ND	9.2	0.42	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
3/4-Methylphenol	ND	9.2	0.44	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Naphthalene	61	4.6	0.83	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
2-Nitroaniline	ND	9.2	0.46	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
3-Nitroaniline	ND	9.2	0.47	µg/L	1	V-20	SW-846 8270E	5/30/23	6/6/23 23:43	BGL
4-Nitroaniline	ND	9.2	0.40	µg/L	1	V-20	SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Nitrobenzene	ND	9.2	0.62	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
2-Nitrophenol	ND	9.2	0.50	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
4-Nitrophenol	ND	18	1.2	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.2	0.44	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
N-Nitrosodi-n-propylamine	ND	9.2	0.60	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Pentachlorophenol	0.63	9.2	0.44	µg/L	1	J	SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Phenanthrene	ND	4.6	0.66	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Phenol	ND	9.2	0.54	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Pyrene	ND	4.6	0.42	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.2	1.1	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
2,4,5-Trichlorophenol	ND	9.2	0.42	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
2,4,6-Trichlorophenol	ND	9.2	0.35	µg/L	1		SW-846 8270E	5/30/23	6/6/23 23:43	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	55.5		15-110				6/6/23 23:43			
Phenol-d6	38.3		15-110				6/6/23 23:43			
Nitrobenzene-d5	78.3		30-130				6/6/23 23:43			
2-Fluorobiphenyl	70.6		30-130				6/6/23 23:43			
2,4,6-Tribromophenol	95.5		15-110				6/6/23 23:43			
p-Terphenyl-d14	82.6		30-130				6/6/23 23:43			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-ASW

Sampled: 5/23/2023 08:38

Sample ID: 23E3537-02

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.46	0.19	0.031	µg/L	1		SW-846 8270E	5/26/23	5/30/23 21:08	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	20.6		15-110				5/30/23 21:08			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-ASW

Sampled: 5/23/2023 08:38

Sample ID: 23E3537-02

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.18	0.034	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:40	TG
Aldrin [1]	ND	0.045	0.0066	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:40	TG
alpha-BHC [1]	ND	0.045	0.0033	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:40	TG
beta-BHC [1]	ND	0.045	0.0075	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:40	TG
delta-BHC [1]	ND	0.045	0.0054	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:40	TG
gamma-BHC (Lindane) [1]	ND	0.027	0.0037	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:40	TG
Chlordane [1]	ND	0.18	0.031	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:40	TG
4,4'-DDD [1]	ND	0.036	0.0038	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:40	TG
4,4'-DDE [1]	ND	0.036	0.0046	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:40	TG
4,4'-DDT [1]	ND	0.036	0.0055	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:40	TG
Dieldrin [1]	ND	0.0018	0.00092	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:40	TG
Endosulfan I [1]	ND	0.045	0.0047	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:40	TG
Endosulfan II [1]	ND	0.073	0.0035	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:40	TG
Endosulfan sulfate [1]	ND	0.073	0.0058	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:40	TG
Endrin [1]	ND	0.073	0.0038	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:40	TG
Endrin aldehyde [1]	ND	0.073	0.0040	µg/L	1		SW-846 8081B	5/27/23	6/8/23 18:56	TG
Endrin ketone [1]	ND	0.073	0.0036	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:40	TG
Heptachlor [1]	ND	0.045	0.0055	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:40	TG
Heptachlor epoxide [1]	ND	0.045	0.0063	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:40	TG
Hexachlorobenzene [1]	ND	0.045	0.026	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:40	TG
Methoxychlor [1]	ND	0.45	0.0094	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:40	TG
Toxaphene [1]	ND	0.91	0.60	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:40	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	56.9		30-150							
Decachlorobiphenyl [2]	57.7		30-150							
Tetrachloro-m-xylene [1]	51.7		30-150							
Tetrachloro-m-xylene [2]	45.8		30-150							

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-VEW-2

Sampled: 5/23/2023 09:41

Sample ID: 23E3537-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Bromoform	ND	1.0	0.41	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 14:25	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
1,2-Dichlorobenzene	0.78	1.0	0.13	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 14:25	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
cis-1,2-Dichloroethylene	0.28	1.0	0.14	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 14:25	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Tetrachloroethylene	0.34	1.0	0.17	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-VEW-2

Sampled: 5/23/2023 09:41

Sample ID: 23E3537-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Trichloroethylene	0.70	1.0	0.17	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:25	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	96.3	70-130	
Toluene-d8	98.4	70-130	
4-Bromofluorobenzene	89.4	70-130	

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-VEW-2

Sampled: 5/23/2023 09:41

Sample ID: 23E3537-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	18	1.5	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Benzaldehyde	ND	9.0	0.65	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Biphenyl	ND	18	0.83	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Caprolactam	ND	9.0	0.65	µg/L	1	L-04	SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Acenaphthene	ND	4.5	0.71	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Acenaphthylene	ND	4.5	0.58	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Acetophenone	ND	9.0	0.45	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Anthracene	ND	4.5	0.49	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Benzo(a)anthracene	ND	4.5	0.34	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Benzo(a)pyrene	ND	4.5	0.39	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Benzo(b)fluoranthene	ND	4.5	0.29	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Benzo(g,h,i)perylene	ND	4.5	0.47	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Benzo(k)fluoranthene	ND	4.5	0.41	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Bis(2-chloroethoxy)methane	ND	9.0	0.52	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Bis(2-chloroethyl)ether	ND	9.0	0.41	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Bis(2-chloroisopropyl)ether	ND	9.0	0.68	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.0	0.29	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
4-Bromophenylphenylether	ND	9.0	0.64	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Butylbenzylphthalate	ND	9.0	0.36	µg/L	1	V-05	SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Carbazole	ND	9.0	0.41	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
4-Chloroaniline	ND	9.0	4.7	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
4-Chloro-3-methylphenol	ND	9.0	0.57	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
2-Chloronaphthalene	ND	9.0	0.73	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
2-Chlorophenol	ND	9.0	0.37	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
4-Chlorophenylphenylether	ND	9.0	0.78	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Chrysene	ND	4.5	0.41	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Dibenz(a,h)anthracene	ND	4.5	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Dibenzofuran	ND	4.5	0.77	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Di-n-butylphthalate	ND	9.0	0.45	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
3,3-Dichlorobenzidine	ND	9.0	0.41	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
2,4-Dichlorophenol	ND	9.0	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Diethylphthalate	ND	9.0	0.50	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
2,4-Dimethylphenol	ND	9.0	0.37	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Dimethylphthalate	ND	9.0	0.39	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
4,6-Dinitro-2-methylphenol	ND	18	2.1	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
2,4-Dinitrophenol	ND	18	1.2	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
2,4-Dinitrotoluene	ND	9.0	0.31	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
2,6-Dinitrotoluene	ND	9.0	0.50	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Di-n-octylphthalate	ND	9.0	0.29	µg/L	1	V-05	SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Fluoranthene	ND	4.5	0.51	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Fluorene	ND	4.5	0.68	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Hexachlorobenzene	ND	9.0	0.65	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Hexachlorobutadiene	ND	9.0	1.1	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Hexachlorocyclopentadiene	ND	9.0	2.6	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-VEW-2

Sampled: 5/23/2023 09:41

Sample ID: 23E3537-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	9.0	1.1	µg/L	1	L-04	SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Indeno(1,2,3-cd)pyrene	ND	4.5	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Isophorone	ND	9.0	0.49	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
2-Methylnaphthalene	ND	4.5	0.84	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
2-Methylphenol	ND	9.0	0.41	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
3/4-Methylphenol	ND	9.0	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Naphthalene	ND	4.5	0.81	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
2-Nitroaniline	ND	9.0	0.45	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
3-Nitroaniline	ND	9.0	0.47	µg/L	1	V-20	SW-846 8270E	5/30/23	6/7/23 0:05	BGL
4-Nitroaniline	ND	9.0	0.39	µg/L	1	V-20	SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Nitrobenzene	ND	9.0	0.61	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
2-Nitrophenol	ND	9.0	0.49	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
4-Nitrophenol	ND	18	1.2	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.0	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
N-Nitrosodi-n-propylamine	ND	9.0	0.59	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Pentachlorophenol	ND	9.0	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Phenanthrene	ND	4.5	0.65	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Phenol	ND	9.0	0.53	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Pyrene	ND	4.5	0.41	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.0	1.1	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
2,4,5-Trichlorophenol	ND	9.0	0.41	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
2,4,6-Trichlorophenol	ND	9.0	0.34	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:05	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	59.0		15-110				6/7/23 0:05			
Phenol-d6	38.1		15-110				6/7/23 0:05			
Nitrobenzene-d5	85.8		30-130				6/7/23 0:05			
2-Fluorobiphenyl	81.9		30-130				6/7/23 0:05			
2,4,6-Tribromophenol	95.2		15-110				6/7/23 0:05			
p-Terphenyl-d14	86.8		30-130				6/7/23 0:05			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-VEW-2

Sampled: 5/23/2023 09:41

Sample ID: 23E3537-03

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.032	µg/L	1		SW-846 8270E	5/26/23	5/30/23 17:47	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	29.0		15-110				5/30/23 17:47			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-VEW-2

Sampled: 5/23/2023 09:41

Sample ID: 23E3537-03

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.18	0.034	µg/L	1		SW-846 8081B	5/27/23	6/9/23 8:49	TG
Aldrin [1]	ND	0.045	0.0065	µg/L	1		SW-846 8081B	5/27/23	6/9/23 8:49	TG
alpha-BHC [1]	ND	0.045	0.0033	µg/L	1		SW-846 8081B	5/27/23	6/9/23 8:49	TG
beta-BHC [1]	ND	0.045	0.0074	µg/L	1		SW-846 8081B	5/27/23	6/9/23 8:49	TG
delta-BHC [1]	ND	0.045	0.0053	µg/L	1		SW-846 8081B	5/27/23	6/9/23 8:49	TG
gamma-BHC (Lindane) [1]	ND	0.027	0.0037	µg/L	1		SW-846 8081B	5/27/23	6/9/23 8:49	TG
Chlordane [1]	ND	0.18	0.030	µg/L	1		SW-846 8081B	5/27/23	6/9/23 8:49	TG
4,4'-DDD [1]	ND	0.036	0.0038	µg/L	1		SW-846 8081B	5/27/23	6/9/23 8:49	TG
4,4'-DDE [1]	ND	0.036	0.0045	µg/L	1		SW-846 8081B	5/27/23	6/9/23 8:49	TG
4,4'-DDT [1]	ND	0.036	0.0054	µg/L	1		SW-846 8081B	5/27/23	6/9/23 8:49	TG
Dieldrin [1]	ND	0.0018	0.00091	µg/L	1		SW-846 8081B	5/27/23	6/9/23 8:49	TG
Endosulfan I [1]	ND	0.045	0.0046	µg/L	1		SW-846 8081B	5/27/23	6/9/23 8:49	TG
Endosulfan II [1]	ND	0.071	0.0034	µg/L	1		SW-846 8081B	5/27/23	6/9/23 8:49	TG
Endosulfan sulfate [1]	ND	0.071	0.0057	µg/L	1		SW-846 8081B	5/27/23	6/9/23 8:49	TG
Endrin [1]	ND	0.071	0.0037	µg/L	1		SW-846 8081B	5/27/23	6/9/23 8:49	TG
Endrin aldehyde [1]	ND	0.071	0.0040	µg/L	1		SW-846 8081B	5/27/23	6/9/23 8:49	TG
Endrin ketone [1]	ND	0.071	0.0035	µg/L	1		SW-846 8081B	5/27/23	6/9/23 8:49	TG
Heptachlor [1]	ND	0.045	0.0054	µg/L	1		SW-846 8081B	5/27/23	6/9/23 8:49	TG
Heptachlor epoxide [1]	ND	0.045	0.0061	µg/L	1		SW-846 8081B	5/27/23	6/9/23 8:49	TG
Hexachlorobenzene [1]	ND	0.045	0.025	µg/L	1		SW-846 8081B	5/27/23	6/9/23 8:49	TG
Methoxychlor [1]	ND	0.45	0.0093	µg/L	1		SW-846 8081B	5/27/23	6/9/23 8:49	TG
Toxaphene [1]	ND	0.89	0.59	µg/L	1		SW-846 8081B	5/27/23	6/9/23 8:49	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	60.4		30-150				6/9/23 8:49			
Decachlorobiphenyl [2]	53.4		30-150				6/9/23 8:49			
Tetrachloro-m-xylene [1]	56.1		30-150				6/9/23 8:49			
Tetrachloro-m-xylene [2]	54.5		30-150				6/9/23 8:49			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-VEW-3

Sampled: 5/23/2023 09:45

Sample ID: 23E3537-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.7	50	2.0	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Bromoform	ND	1.0	0.41	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
2-Butanone (MEK)	3.3	20	1.7	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 14:51	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
1,2-Dichlorobenzene	4.4	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Ethylbenzene	5.9	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Isopropylbenzene (Cumene)	2.0	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Methyl Cyclohexane	0.26	1.0	0.16	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Tetrachloroethylene	0.42	1.0	0.17	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Toluene	1.8	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-VEW-3

Sampled: 5/23/2023 09:45

Sample ID: 23E3537-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF
Xylenes (total)	31	1.0	1.0	µg/L	1		SW-846 8260D	6/1/23	6/2/23 14:51	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.9	70-130	
Toluene-d8	99.5	70-130	
4-Bromofluorobenzene	95.6	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-VEW-3

Sampled: 5/23/2023 09:45

Sample ID: 23E3537-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	19	1.5	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Benzaldehyde	ND	9.3	0.68	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Biphenyl	ND	19	0.86	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Caprolactam	ND	9.3	0.67	µg/L	1	L-04	SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Acenaphthene	ND	4.7	0.73	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Acenaphthylene	ND	4.7	0.60	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Acetophenone	ND	9.3	0.47	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Anthracene	ND	4.7	0.51	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Benzo(a)anthracene	ND	4.7	0.35	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Benzo(a)pyrene	ND	4.7	0.41	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Benzo(b)fluoranthene	ND	4.7	0.30	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Benzo(g,h,i)perylene	ND	4.7	0.49	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Benzo(k)fluoranthene	ND	4.7	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Bis(2-chloroethoxy)methane	ND	9.3	0.54	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Bis(2-chloroethyl)ether	ND	9.3	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Bis(2-chloroisopropyl)ether	ND	9.3	0.70	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.3	0.30	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
4-Bromophenylphenylether	ND	9.3	0.66	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Butylbenzylphthalate	ND	9.3	0.37	µg/L	1	V-05	SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Carbazole	ND	9.3	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
4-Chloroaniline	ND	9.3	4.9	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
4-Chloro-3-methylphenol	ND	9.3	0.59	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
2-Chloronaphthalene	ND	9.3	0.76	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
2-Chlorophenol	ND	9.3	0.38	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
4-Chlorophenylphenylether	ND	9.3	0.81	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Chrysene	ND	4.7	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Dibenz(a,h)anthracene	ND	4.7	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Dibenzofuran	ND	4.7	0.80	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Di-n-butylphthalate	ND	9.3	0.47	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
3,3-Dichlorobenzidine	ND	9.3	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
2,4-Dichlorophenol	ND	9.3	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Diethylphthalate	ND	9.3	0.52	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
2,4-Dimethylphenol	ND	9.3	0.38	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Dimethylphthalate	ND	9.3	0.41	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.2	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
2,4-Dinitrophenol	ND	19	1.2	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
2,4-Dinitrotoluene	ND	9.3	0.33	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
2,6-Dinitrotoluene	ND	9.3	0.51	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Di-n-octylphthalate	ND	9.3	0.31	µg/L	1	V-05	SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Fluoranthene	ND	4.7	0.53	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Fluorene	ND	4.7	0.71	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Hexachlorobenzene	ND	9.3	0.67	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Hexachlorobutadiene	ND	9.3	1.1	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Hexachlorocyclopentadiene	ND	9.3	2.7	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-VEW-3

Sampled: 5/23/2023 09:45

Sample ID: 23E3537-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	9.3	1.2	µg/L	1	L-04	SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Indeno(1,2,3-cd)pyrene	ND	4.7	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Isophorone	ND	9.3	0.51	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
2-Methylnaphthalene	ND	4.7	0.87	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
2-Methylphenol	ND	9.3	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
3/4-Methylphenol	ND	9.3	0.45	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Naphthalene	ND	4.7	0.85	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
2-Nitroaniline	ND	9.3	0.46	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
3-Nitroaniline	ND	9.3	0.48	µg/L	1	V-20	SW-846 8270E	5/30/23	6/7/23 0:27	BGL
4-Nitroaniline	ND	9.3	0.41	µg/L	1	V-20	SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Nitrobenzene	ND	9.3	0.63	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
2-Nitrophenol	ND	9.3	0.51	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
4-Nitrophenol	ND	19	1.2	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.3	0.45	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
N-Nitrosodi-n-propylamine	ND	9.3	0.61	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Pentachlorophenol	ND	9.3	0.45	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Phenanthrene	ND	4.7	0.67	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Phenol	ND	9.3	0.55	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
Pyrene	ND	4.7	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.3	1.1	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
2,4,5-Trichlorophenol	ND	9.3	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL
2,4,6-Trichlorophenol	ND	9.3	0.35	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:27	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	61.2	15-110	6/7/23 0:27
Phenol-d6	39.1	15-110	6/7/23 0:27
Nitrobenzene-d5	84.8	30-130	6/7/23 0:27
2-Fluorobiphenyl	81.9	30-130	6/7/23 0:27
2,4,6-Tribromophenol	93.7	15-110	6/7/23 0:27
p-Terphenyl-d14	86.9	30-130	6/7/23 0:27

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-VEW-3

Sampled: 5/23/2023 09:45

Sample ID: 23E3537-04

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.031	µg/L	1		SW-846 8270E	5/26/23	5/30/23 18:07	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	24.5		15-110				5/30/23 18:07			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-VEW-3

Sampled: 5/23/2023 09:45

Sample ID: 23E3537-04

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.19	0.035	µg/L	1		SW-846 8081B	5/27/23	6/8/23 19:42	TG
Aldrin [1]	ND	0.046	0.0067	µg/L	1		SW-846 8081B	5/27/23	6/8/23 19:42	TG
alpha-BHC [1]	ND	0.046	0.0034	µg/L	1		SW-846 8081B	5/27/23	6/8/23 19:42	TG
beta-BHC [1]	ND	0.046	0.0077	µg/L	1		SW-846 8081B	5/27/23	6/8/23 19:42	TG
delta-BHC [1]	ND	0.046	0.0055	µg/L	1		SW-846 8081B	5/27/23	6/8/23 19:42	TG
gamma-BHC (Lindane) [1]	ND	0.028	0.0038	µg/L	1		SW-846 8081B	5/27/23	6/8/23 19:42	TG
Chlordane [1]	ND	0.19	0.031	µg/L	1		SW-846 8081B	5/27/23	6/8/23 19:42	TG
4,4'-DDD [1]	ND	0.037	0.0039	µg/L	1		SW-846 8081B	5/27/23	6/8/23 19:42	TG
4,4'-DDE [1]	ND	0.037	0.0047	µg/L	1		SW-846 8081B	5/27/23	6/8/23 19:42	TG
4,4'-DDT [1]	ND	0.037	0.0056	µg/L	1		SW-846 8081B	5/27/23	6/8/23 19:42	TG
Dieldrin [1]	ND	0.0019	0.00094	µg/L	1		SW-846 8081B	5/27/23	6/8/23 19:42	TG
Endosulfan I [1]	ND	0.046	0.0048	µg/L	1		SW-846 8081B	5/27/23	6/8/23 19:42	TG
Endosulfan II [1]	ND	0.074	0.0036	µg/L	1		SW-846 8081B	5/27/23	6/8/23 19:42	TG
Endosulfan sulfate [1]	ND	0.074	0.0059	µg/L	1		SW-846 8081B	5/27/23	6/8/23 19:42	TG
Endrin [1]	ND	0.074	0.0038	µg/L	1		SW-846 8081B	5/27/23	6/8/23 19:42	TG
Endrin aldehyde [1]	ND	0.074	0.0041	µg/L	1		SW-846 8081B	5/27/23	6/8/23 19:42	TG
Endrin ketone [1]	ND	0.074	0.0036	µg/L	1		SW-846 8081B	5/27/23	6/8/23 19:42	TG
Heptachlor [1]	ND	0.046	0.0056	µg/L	1		SW-846 8081B	5/27/23	6/8/23 19:42	TG
Heptachlor epoxide [1]	ND	0.046	0.0064	µg/L	1		SW-846 8081B	5/27/23	6/8/23 19:42	TG
Hexachlorobenzene [1]	ND	0.046	0.026	µg/L	1		SW-846 8081B	5/27/23	6/8/23 19:42	TG
Methoxychlor [1]	ND	0.46	0.0096	µg/L	1		SW-846 8081B	5/27/23	6/8/23 19:42	TG
Toxaphene [1]	ND	0.93	0.62	µg/L	1		SW-846 8081B	5/27/23	6/8/23 19:42	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	82.8		30-150				6/8/23 19:42			
Decachlorobiphenyl [2]	82.1		30-150				6/8/23 19:42			
Tetrachloro-m-xylene [1]	78.8		30-150				6/8/23 19:42			
Tetrachloro-m-xylene [2]	73.0		30-150				6/8/23 19:42			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-VEW-4

Sampled: 5/23/2023 10:45

Sample ID: 23E3537-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	3.4	50	2.0	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Bromoform	ND	1.0	0.41	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 19:18	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
1,2-Dichlorobenzene	2.6	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
1,4-Dichlorobenzene	0.21	1.0	0.13	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
cis-1,2-Dichloroethylene	0.27	1.0	0.14	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 19:18	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Ethylbenzene	2.7	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Isopropylbenzene (Cumene)	1.2	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Tetrachloroethylene	0.25	1.0	0.17	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Toluene	0.89	1.0	0.22	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 19:18	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-VEW-4

Sampled: 5/23/2023 10:45

Sample ID: 23E3537-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Trichloroethylene	0.75	1.0	0.17	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF
Xylenes (total)	33	1.0	1.0	µg/L	1		SW-846 8260D	6/1/23	6/2/23 19:18	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.4	70-130	
Toluene-d8	99.3	70-130	
4-Bromofluorobenzene	97.0	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-VEW-4

Sampled: 5/23/2023 10:45

Sample ID: 23E3537-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	19	1.6	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Benzaldehyde	ND	9.4	0.68	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Biphenyl	ND	19	0.87	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Caprolactam	ND	9.4	0.68	µg/L	1	L-04	SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Acenaphthene	ND	4.7	0.74	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Acenaphthylene	ND	4.7	0.60	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Acetophenone	ND	9.4	0.47	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Anthracene	ND	4.7	0.51	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Benzo(a)anthracene	ND	4.7	0.36	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Benzo(a)pyrene	ND	4.7	0.41	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Benzo(b)fluoranthene	ND	4.7	0.31	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Benzo(g,h,i)perylene	ND	4.7	0.49	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Benzo(k)fluoranthene	ND	4.7	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Bis(2-chloroethoxy)methane	ND	9.4	0.54	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Bis(2-chloroethyl)ether	ND	9.4	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Bis(2-chloroisopropyl)ether	ND	9.4	0.71	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.4	0.31	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
4-Bromophenylphenylether	ND	9.4	0.67	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Butylbenzylphthalate	ND	9.4	0.37	µg/L	1	V-05	SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Carbazole	ND	9.4	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
4-Chloroaniline	ND	9.4	4.9	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
4-Chloro-3-methylphenol	ND	9.4	0.60	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
2-Chloronaphthalene	ND	9.4	0.77	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
2-Chlorophenol	ND	9.4	0.39	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
4-Chlorophenylphenylether	ND	9.4	0.82	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Chrysene	ND	4.7	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Dibenz(a,h)anthracene	ND	4.7	0.45	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Dibenzofuran	ND	4.7	0.81	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Di-n-butylphthalate	ND	9.4	0.47	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
3,3-Dichlorobenzidine	ND	9.4	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
2,4-Dichlorophenol	ND	9.4	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Diethylphthalate	ND	9.4	0.53	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
2,4-Dimethylphenol	ND	9.4	0.39	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Dimethylphthalate	ND	9.4	0.41	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.2	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
2,4-Dinitrophenol	ND	19	1.3	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
2,4-Dinitrotoluene	ND	9.4	0.33	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
2,6-Dinitrotoluene	ND	9.4	0.52	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Di-n-octylphthalate	ND	9.4	0.31	µg/L	1	V-05	SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Fluoranthene	ND	4.7	0.53	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Fluorene	ND	4.7	0.72	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Hexachlorobenzene	ND	9.4	0.68	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Hexachlorobutadiene	ND	9.4	1.2	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Hexachlorocyclopentadiene	ND	9.4	2.7	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-VEW-4

Sampled: 5/23/2023 10:45

Sample ID: 23E3537-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	9.4	1.2	µg/L	1	L-04	SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Indeno(1,2,3-cd)pyrene	ND	4.7	0.45	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Isophorone	ND	9.4	0.51	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
2-Methylnaphthalene	ND	4.7	0.88	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
2-Methylphenol	ND	9.4	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
3/4-Methylphenol	1.3	9.4	0.45	µg/L	1	J	SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Naphthalene	ND	4.7	0.85	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
2-Nitroaniline	ND	9.4	0.47	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
3-Nitroaniline	ND	9.4	0.49	µg/L	1	V-20	SW-846 8270E	5/30/23	6/7/23 0:49	BGL
4-Nitroaniline	ND	9.4	0.41	µg/L	1	V-20	SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Nitrobenzene	ND	9.4	0.64	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
2-Nitrophenol	ND	9.4	0.51	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
4-Nitrophenol	ND	19	1.2	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.4	0.45	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
N-Nitrosodi-n-propylamine	ND	9.4	0.62	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Pentachlorophenol	ND	9.4	0.45	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Phenanthrene	ND	4.7	0.68	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Phenol	ND	9.4	0.56	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Pyrene	ND	4.7	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.4	1.1	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
2,4,5-Trichlorophenol	ND	9.4	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
2,4,6-Trichlorophenol	ND	9.4	0.36	µg/L	1		SW-846 8270E	5/30/23	6/7/23 0:49	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	56.3		15-110				6/7/23 0:49			
Phenol-d6	37.3		15-110				6/7/23 0:49			
Nitrobenzene-d5	79.8		30-130				6/7/23 0:49			
2-Fluorobiphenyl	73.9		30-130				6/7/23 0:49			
2,4,6-Tribromophenol	92.1		15-110				6/7/23 0:49			
p-Terphenyl-d14	81.0		30-130				6/7/23 0:49			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-VEW-4

Sampled: 5/23/2023 10:45

Sample ID: 23E3537-05

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.56	0.19	0.031	µg/L	1		SW-846 8270E	5/26/23	5/30/23 18:27	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	25.1		15-110				5/30/23 18:27			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-VEW-4

Sampled: 5/23/2023 10:45

Sample ID: 23E3537-05

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.19	0.036	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:05	TG
Aldrin [1]	ND	0.048	0.0070	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:05	TG
alpha-BHC [1]	ND	0.048	0.0035	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:05	TG
beta-BHC [1]	ND	0.048	0.0079	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:05	TG
delta-BHC [1]	ND	0.048	0.0057	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:05	TG
gamma-BHC (Lindane) [1]	ND	0.029	0.0039	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:05	TG
Chlordane [1]	ND	0.19	0.032	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:05	TG
4,4'-DDD [1]	ND	0.038	0.0040	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:05	TG
4,4'-DDE [1]	ND	0.038	0.0048	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:05	TG
4,4'-DDT [1]	ND	0.038	0.0058	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:05	TG
Dieldrin [1]	ND	0.0019	0.00098	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:05	TG
Endosulfan I [1]	ND	0.048	0.0050	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:05	TG
Endosulfan II [1]	ND	0.077	0.0037	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:05	TG
Endosulfan sulfate [1]	ND	0.077	0.0062	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:05	TG
Endrin [1]	ND	0.077	0.0040	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:05	TG
Endrin aldehyde [1]	ND	0.077	0.0043	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:05	TG
Endrin ketone [1]	ND	0.077	0.0038	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:05	TG
Heptachlor [1]	ND	0.048	0.0059	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:05	TG
Heptachlor epoxide [1]	ND	0.048	0.0066	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:05	TG
Hexachlorobenzene [1]	ND	0.048	0.027	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:05	TG
Methoxychlor [1]	ND	0.48	0.010	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:05	TG
Toxaphene [1]	ND	0.96	0.64	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:05	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	66.4		30-150				6/8/23 20:05			
Decachlorobiphenyl [2]	66.6		30-150				6/8/23 20:05			
Tetrachloro-m-xylene [1]	55.4		30-150				6/8/23 20:05			
Tetrachloro-m-xylene [2]	51.4		30-150				6/8/23 20:05			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-VEW-1

Sampled: 5/23/2023 11:07

Sample ID: 23E3537-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Bromoform	ND	1.0	0.41	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 15:18	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
1,2-Dichlorobenzene	1.7	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Ethylbenzene	2.1	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Isopropylbenzene (Cumene)	0.75	1.0	0.15	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Methyl Cyclohexane	0.25	1.0	0.16	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
1,1,2,2-Tetrachloroethane	0.25	0.50	0.14	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Tetrachloroethylene	0.44	1.0	0.17	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Toluene	0.35	1.0	0.22	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 15:18	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-VEW-1

Sampled: 5/23/2023 11:07

Sample ID: 23E3537-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Trichloroethylene	1.8	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF
Xylenes (total)	24	1.0	1.0	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:18	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.6	70-130	
Toluene-d8	98.8	70-130	
4-Bromofluorobenzene	93.4	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-VEW-1

Sampled: 5/23/2023 11:07

Sample ID: 23E3537-06

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	18	1.5	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Benzaldehyde	ND	9.2	0.66	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Biphenyl	ND	18	0.85	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Caprolactam	ND	9.2	0.66	µg/L	1	L-04	SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Acenaphthene	ND	4.6	0.72	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Acenaphthylene	ND	4.6	0.59	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Acetophenone	ND	9.2	0.46	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Anthracene	ND	4.6	0.50	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Benzo(a)anthracene	ND	4.6	0.35	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Benzo(a)pyrene	ND	4.6	0.40	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Benzo(b)fluoranthene	ND	4.6	0.30	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Benzo(g,h,i)perylene	ND	4.6	0.48	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Benzo(k)fluoranthene	ND	4.6	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Bis(2-chloroethoxy)methane	ND	9.2	0.53	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Bis(2-chloroethyl)ether	ND	9.2	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Bis(2-chloroisopropyl)ether	ND	9.2	0.69	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.2	0.30	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
4-Bromophenylphenylether	ND	9.2	0.65	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Butylbenzylphthalate	ND	9.2	0.36	µg/L	1	V-05	SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Carbazole	ND	9.2	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
4-Chloroaniline	ND	9.2	4.8	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
4-Chloro-3-methylphenol	ND	9.2	0.58	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
2-Chloronaphthalene	ND	9.2	0.75	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
2-Chlorophenol	ND	9.2	0.38	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
4-Chlorophenylphenylether	ND	9.2	0.80	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Chrysene	ND	4.6	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Dibenz(a,h)anthracene	ND	4.6	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Dibenzofuran	ND	4.6	0.79	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Di-n-butylphthalate	0.72	9.2	0.46	µg/L	1	J	SW-846 8270E	5/30/23	6/7/23 1:12	BGL
3,3-Dichlorobenzidine	ND	9.2	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
2,4-Dichlorophenol	ND	9.2	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Diethylphthalate	ND	9.2	0.51	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
2,4-Dimethylphenol	ND	9.2	0.38	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Dimethylphthalate	ND	9.2	0.40	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
4,6-Dinitro-2-methylphenol	ND	18	2.1	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
2,4-Dinitrophenol	ND	18	1.2	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
2,4-Dinitrotoluene	ND	9.2	0.32	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
2,6-Dinitrotoluene	ND	9.2	0.50	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Di-n-octylphthalate	ND	9.2	0.30	µg/L	1	V-05	SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Fluoranthene	ND	4.6	0.52	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Fluorene	ND	4.6	0.70	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Hexachlorobenzene	ND	9.2	0.66	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Hexachlorobutadiene	ND	9.2	1.1	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Hexachlorocyclopentadiene	ND	9.2	2.6	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-VEW-1

Sampled: 5/23/2023 11:07

Sample ID: 23E3537-06

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	9.2	1.1	µg/L	1	L-04	SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Indeno(1,2,3-cd)pyrene	ND	4.6	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Isophorone	ND	9.2	0.50	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
2-Methylnaphthalene	ND	4.6	0.86	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
2-Methylphenol	ND	9.2	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
3/4-Methylphenol	ND	9.2	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Naphthalene	ND	4.6	0.83	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
2-Nitroaniline	ND	9.2	0.46	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
3-Nitroaniline	ND	9.2	0.47	µg/L	1	V-20	SW-846 8270E	5/30/23	6/7/23 1:12	BGL
4-Nitroaniline	ND	9.2	0.40	µg/L	1	V-20	SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Nitrobenzene	ND	9.2	0.62	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
2-Nitrophenol	ND	9.2	0.50	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
4-Nitrophenol	ND	18	1.2	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.2	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
N-Nitrosodi-n-propylamine	ND	9.2	0.60	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Pentachlorophenol	ND	9.2	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Phenanthrene	ND	4.6	0.66	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Phenol	ND	9.2	0.54	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Pyrene	ND	4.6	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.2	1.1	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
2,4,5-Trichlorophenol	ND	9.2	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
2,4,6-Trichlorophenol	ND	9.2	0.35	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:12	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	59.6		15-110				6/7/23 1:12			
Phenol-d6	39.5		15-110				6/7/23 1:12			
Nitrobenzene-d5	84.9		30-130				6/7/23 1:12			
2-Fluorobiphenyl	81.1		30-130				6/7/23 1:12			
2,4,6-Tribromophenol	98.4		15-110				6/7/23 1:12			
p-Terphenyl-d14	88.9		30-130				6/7/23 1:12			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-VEW-1

Sampled: 5/23/2023 11:07

Sample ID: 23E3537-06

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.35	0.19	0.032	µg/L	1		SW-846 8270E	5/26/23	5/30/23 18:47	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	31.8		15-110				5/30/23 18:47			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-VEW-1

Sampled: 5/23/2023 11:07

Sample ID: 23E3537-06

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.18	0.034	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:29	TG
Aldrin [1]	ND	0.045	0.0065	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:29	TG
alpha-BHC [1]	ND	0.045	0.0033	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:29	TG
beta-BHC [1]	ND	0.045	0.0074	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:29	TG
delta-BHC [1]	ND	0.045	0.0053	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:29	TG
gamma-BHC (Lindane) [1]	ND	0.027	0.0037	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:29	TG
Chlordane [1]	ND	0.18	0.030	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:29	TG
4,4'-DDD [1]	ND	0.036	0.0038	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:29	TG
4,4'-DDE [1]	ND	0.036	0.0045	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:29	TG
4,4'-DDT [1]	ND	0.036	0.0055	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:29	TG
Dieldrin [1]	ND	0.0018	0.00091	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:29	TG
Endosulfan I [1]	ND	0.045	0.0047	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:29	TG
Endosulfan II [1]	ND	0.072	0.0035	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:29	TG
Endosulfan sulfate [1]	ND	0.072	0.0058	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:29	TG
Endrin [1]	ND	0.072	0.0037	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:29	TG
Endrin aldehyde [1]	ND	0.072	0.0040	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:29	TG
Endrin ketone [1]	ND	0.072	0.0035	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:29	TG
Heptachlor [1]	ND	0.045	0.0055	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:29	TG
Heptachlor epoxide [1]	ND	0.045	0.0062	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:29	TG
Hexachlorobenzene [1]	ND	0.045	0.025	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:29	TG
Methoxychlor [1]	ND	0.45	0.0093	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:29	TG
Toxaphene [1]	ND	0.90	0.60	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:29	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	74.4		30-150						6/8/23 20:29	
Decachlorobiphenyl [2]	73.4		30-150						6/8/23 20:29	
Tetrachloro-m-xylene [1]	70.2		30-150						6/8/23 20:29	
Tetrachloro-m-xylene [2]	67.8		30-150						6/8/23 20:29	

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-K-2

Sampled: 5/23/2023 12:00

Sample ID: 23E3537-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.1	50	2.0	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Bromoform	ND	1.0	0.41	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 15:45	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Ethylbenzene	0.30	1.0	0.22	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 15:45	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Tetrachloroethylene	1.3	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-K-2

Sampled: 5/23/2023 12:00

Sample ID: 23E3537-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Trichloroethylene	0.18	1.0	0.17	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF
Xylenes (total)	3.9	1.0	1.0	µg/L	1		SW-846 8260D	6/1/23	6/2/23 15:45	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.6	70-130	
Toluene-d8	99.6	70-130	
4-Bromofluorobenzene	91.9	70-130	

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-K-2

Sampled: 5/23/2023 12:00

Sample ID: 23E3537-07

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	19	1.5	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Benzaldehyde	ND	9.3	0.67	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Biphenyl	ND	19	0.85	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Caprolactam	ND	9.3	0.66	µg/L	1	L-04	SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Acenaphthene	ND	4.6	0.73	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Acenaphthylene	ND	4.6	0.59	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Acetophenone	ND	9.3	0.46	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Anthracene	ND	4.6	0.50	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Benzo(a)anthracene	ND	4.6	0.35	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Benzo(a)pyrene	ND	4.6	0.40	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Benzo(b)fluoranthene	ND	4.6	0.30	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Benzo(g,h,i)perylene	ND	4.6	0.48	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Benzo(k)fluoranthene	ND	4.6	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Bis(2-chloroethoxy)methane	ND	9.3	0.53	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Bis(2-chloroethyl)ether	ND	9.3	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Bis(2-chloroisopropyl)ether	ND	9.3	0.69	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.3	0.30	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
4-Bromophenylphenylether	ND	9.3	0.66	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Butylbenzylphthalate	ND	9.3	0.37	µg/L	1	V-05	SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Carbazole	ND	9.3	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
4-Chloroaniline	ND	9.3	4.8	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
4-Chloro-3-methylphenol	ND	9.3	0.59	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
2-Chloronaphthalene	ND	9.3	0.75	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
2-Chlorophenol	ND	9.3	0.38	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
4-Chlorophenylphenylether	ND	9.3	0.81	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Chrysene	ND	4.6	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Dibenz(a,h)anthracene	ND	4.6	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Dibenzofuran	ND	4.6	0.79	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Di-n-butylphthalate	ND	9.3	0.46	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
3,3-Dichlorobenzidine	ND	9.3	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
2,4-Dichlorophenol	ND	9.3	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Diethylphthalate	ND	9.3	0.52	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
2,4-Dimethylphenol	ND	9.3	0.38	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Dimethylphthalate	ND	9.3	0.40	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.1	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
2,4-Dinitrophenol	ND	19	1.2	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
2,4-Dinitrotoluene	ND	9.3	0.32	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
2,6-Dinitrotoluene	ND	9.3	0.51	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Di-n-octylphthalate	ND	9.3	0.30	µg/L	1	V-05	SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Fluoranthene	ND	4.6	0.52	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Fluorene	ND	4.6	0.70	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Hexachlorobenzene	ND	9.3	0.67	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Hexachlorobutadiene	ND	9.3	1.1	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Hexachlorocyclopentadiene	ND	9.3	2.6	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-K-2

Sampled: 5/23/2023 12:00

Sample ID: 23E3537-07

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	9.3	1.2	µg/L	1	L-04	SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Indeno(1,2,3-cd)pyrene	ND	4.6	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Isophorone	ND	9.3	0.50	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
2-Methylnaphthalene	ND	4.6	0.86	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
2-Methylphenol	ND	9.3	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
3/4-Methylphenol	ND	9.3	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Naphthalene	ND	4.6	0.84	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
2-Nitroaniline	ND	9.3	0.46	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
3-Nitroaniline	ND	9.3	0.48	µg/L	1	V-20	SW-846 8270E	5/30/23	6/7/23 1:34	BGL
4-Nitroaniline	ND	9.3	0.40	µg/L	1	V-20	SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Nitrobenzene	ND	9.3	0.63	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
2-Nitrophenol	ND	9.3	0.50	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
4-Nitrophenol	ND	19	1.2	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.3	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
N-Nitrosodi-n-propylamine	ND	9.3	0.61	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Pentachlorophenol	ND	9.3	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Phenanthrene	ND	4.6	0.66	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Phenol	ND	9.3	0.55	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Pyrene	ND	4.6	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.3	1.1	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
2,4,5-Trichlorophenol	ND	9.3	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
2,4,6-Trichlorophenol	ND	9.3	0.35	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:34	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	57.6		15-110				6/7/23 1:34			
Phenol-d6	37.1		15-110				6/7/23 1:34			
Nitrobenzene-d5	80.1		30-130				6/7/23 1:34			
2-Fluorobiphenyl	75.1		30-130				6/7/23 1:34			
2,4,6-Tribromophenol	88.3		15-110				6/7/23 1:34			
p-Terphenyl-d14	86.0		30-130				6/7/23 1:34			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-K-2

Sampled: 5/23/2023 12:00

Sample ID: 23E3537-07

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.031	µg/L	1		SW-846 8270E	5/26/23	5/30/23 19:07	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	24.9		15-110				5/30/23 19:07			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-K-2

Sampled: 5/23/2023 12:00

Sample ID: 23E3537-07

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.19	0.035	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:52	TG
Aldrin [1]	ND	0.047	0.0068	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:52	TG
alpha-BHC [1]	ND	0.047	0.0034	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:52	TG
beta-BHC [1]	ND	0.047	0.0077	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:52	TG
delta-BHC [1]	ND	0.047	0.0055	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:52	TG
gamma-BHC (Lindane) [1]	ND	0.028	0.0038	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:52	TG
Chlordane [2]	25	1.9	0.48	µg/L	10		SW-846 8081B	5/27/23	6/9/23 9:05	TG
4,4'-DDD [1]	ND	0.037	0.0039	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:52	TG
4,4'-DDE [1]	ND	0.037	0.0047	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:52	TG
4,4'-DDT [1]	0.053	0.037	0.0057	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:52	TG
Dieldrin [1]	ND	0.0019	0.00095	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:52	TG
Endosulfan I [1]	ND	0.047	0.0048	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:52	TG
Endosulfan II [1]	ND	0.075	0.0036	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:52	TG
Endosulfan sulfate [1]	ND	0.075	0.0060	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:52	TG
Endrin [1]	ND	0.075	0.0039	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:52	TG
Endrin aldehyde [1]	ND	0.075	0.0042	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:52	TG
Endrin ketone [1]	ND	0.075	0.0037	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:52	TG
Heptachlor [1]	ND	0.047	0.0057	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:52	TG
Heptachlor epoxide [1]	ND	0.047	0.0064	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:52	TG
Hexachlorobenzene [1]	ND	0.047	0.026	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:52	TG
Methoxychlor [1]	ND	0.47	0.0097	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:52	TG
Toxaphene [1]	ND	0.93	0.62	µg/L	1		SW-846 8081B	5/27/23	6/8/23 20:52	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	79.7		30-150				6/8/23 20:52			
Decachlorobiphenyl [2]	79.8		30-150				6/8/23 20:52			
Tetrachloro-m-xylene [1]	69.0		30-150				6/8/23 20:52			
Tetrachloro-m-xylene [2]	64.6		30-150				6/8/23 20:52			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-18

Sampled: 5/23/2023 12:11

Sample ID: 23E3537-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Bromoform	ND	1.0	0.41	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 16:12	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
1,2-Dichlorobenzene	0.44	1.0	0.13	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 16:12	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Ethylbenzene	0.40	1.0	0.22	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 16:12	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Isopropylbenzene (Cumene)	0.20	1.0	0.15	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Tetrachloroethylene	1.3	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-18

Sampled: 5/23/2023 12:11

Sample ID: 23E3537-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF
Xylenes (total)	1.7	1.0	1.0	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:12	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.7	70-130	
Toluene-d8	98.6	70-130	
4-Bromofluorobenzene	91.0	70-130	

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-18

Sampled: 5/23/2023 12:11

Sample ID: 23E3537-08

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	19	1.5	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Benzaldehyde	ND	9.3	0.67	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Biphenyl	ND	19	0.85	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Caprolactam	ND	9.3	0.66	µg/L	1	L-04	SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Acenaphthene	ND	4.6	0.73	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Acenaphthylene	ND	4.6	0.59	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Acetophenone	ND	9.3	0.46	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Anthracene	ND	4.6	0.50	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Benzo(a)anthracene	ND	4.6	0.35	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Benzo(a)pyrene	ND	4.6	0.40	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Benzo(b)fluoranthene	ND	4.6	0.30	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Benzo(g,h,i)perylene	ND	4.6	0.48	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Benzo(k)fluoranthene	ND	4.6	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Bis(2-chloroethoxy)methane	ND	9.3	0.53	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Bis(2-chloroethyl)ether	ND	9.3	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Bis(2-chloroisopropyl)ether	ND	9.3	0.69	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.3	0.30	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
4-Bromophenylphenylether	ND	9.3	0.66	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Butylbenzylphthalate	ND	9.3	0.37	µg/L	1	V-05	SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Carbazole	ND	9.3	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
4-Chloroaniline	ND	9.3	4.8	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
4-Chloro-3-methylphenol	ND	9.3	0.59	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
2-Chloronaphthalene	ND	9.3	0.75	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
2-Chlorophenol	ND	9.3	0.38	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
4-Chlorophenylphenylether	ND	9.3	0.81	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Chrysene	ND	4.6	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Dibenz(a,h)anthracene	ND	4.6	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Dibenzofuran	ND	4.6	0.79	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Di-n-butylphthalate	ND	9.3	0.46	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
3,3-Dichlorobenzidine	ND	9.3	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
2,4-Dichlorophenol	ND	9.3	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Diethylphthalate	ND	9.3	0.52	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
2,4-Dimethylphenol	ND	9.3	0.38	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Dimethylphthalate	ND	9.3	0.40	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.1	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
2,4-Dinitrophenol	ND	19	1.2	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
2,4-Dinitrotoluene	ND	9.3	0.32	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
2,6-Dinitrotoluene	ND	9.3	0.51	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Di-n-octylphthalate	ND	9.3	0.30	µg/L	1	V-05	SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Fluoranthene	ND	4.6	0.52	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Fluorene	ND	4.6	0.70	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Hexachlorobenzene	ND	9.3	0.67	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Hexachlorobutadiene	ND	9.3	1.1	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Hexachlorocyclopentadiene	ND	9.3	2.6	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-18

Sampled: 5/23/2023 12:11

Sample ID: 23E3537-08

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	9.3	1.2	µg/L	1	L-04	SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Indeno(1,2,3-cd)pyrene	ND	4.6	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Isophorone	ND	9.3	0.50	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
2-Methylnaphthalene	ND	4.6	0.86	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
2-Methylphenol	ND	9.3	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
3/4-Methylphenol	ND	9.3	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Naphthalene	ND	4.6	0.84	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
2-Nitroaniline	ND	9.3	0.46	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
3-Nitroaniline	ND	9.3	0.48	µg/L	1	V-20	SW-846 8270E	5/30/23	6/7/23 1:56	BGL
4-Nitroaniline	ND	9.3	0.40	µg/L	1	V-20	SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Nitrobenzene	ND	9.3	0.63	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
2-Nitrophenol	ND	9.3	0.50	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
4-Nitrophenol	ND	19	1.2	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.3	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
N-Nitrosodi-n-propylamine	ND	9.3	0.61	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Pentachlorophenol	ND	9.3	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Phenanthrene	ND	4.6	0.66	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Phenol	ND	9.3	0.55	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
Pyrene	ND	4.6	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.3	1.1	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
2,4,5-Trichlorophenol	ND	9.3	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL
2,4,6-Trichlorophenol	ND	9.3	0.35	µg/L	1		SW-846 8270E	5/30/23	6/7/23 1:56	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	64.8	15-110	
Phenol-d6	41.4	15-110	
Nitrobenzene-d5	89.1	30-130	
2-Fluorobiphenyl	80.5	30-130	
2,4,6-Tribromophenol	96.0	15-110	
p-Terphenyl-d14	93.2	30-130	

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-18

Sampled: 5/23/2023 12:11

Sample ID: 23E3537-08

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.031	µg/L	1		SW-846 8270E	5/26/23	5/30/23 19:27	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	26.5		15-110				5/30/23 19:27			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-18

Sampled: 5/23/2023 12:11

Sample ID: 23E3537-08

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.18	0.034	µg/L	1		SW-846 8081B	5/27/23	6/8/23 21:15	TG
Aldrin [1]	ND	0.045	0.0066	µg/L	1		SW-846 8081B	5/27/23	6/8/23 21:15	TG
alpha-BHC [1]	ND	0.045	0.0033	µg/L	1		SW-846 8081B	5/27/23	6/8/23 21:15	TG
beta-BHC [1]	ND	0.045	0.0075	µg/L	1		SW-846 8081B	5/27/23	6/8/23 21:15	TG
delta-BHC [1]	ND	0.045	0.0054	µg/L	1		SW-846 8081B	5/27/23	6/8/23 21:15	TG
gamma-BHC (Lindane) [1]	ND	0.027	0.0037	µg/L	1		SW-846 8081B	5/27/23	6/8/23 21:15	TG
Chlordane [1]	ND	0.18	0.031	µg/L	1		SW-846 8081B	5/27/23	6/8/23 21:15	TG
4,4'-DDD [1]	ND	0.036	0.0038	µg/L	1		SW-846 8081B	5/27/23	6/8/23 21:15	TG
4,4'-DDE [1]	ND	0.036	0.0046	µg/L	1		SW-846 8081B	5/27/23	6/8/23 21:15	TG
4,4'-DDT [1]	ND	0.036	0.0055	µg/L	1		SW-846 8081B	5/27/23	6/8/23 21:15	TG
Dieldrin [1]	ND	0.0018	0.00092	µg/L	1		SW-846 8081B	5/27/23	6/8/23 21:15	TG
Endosulfan I [1]	ND	0.045	0.0047	µg/L	1		SW-846 8081B	5/27/23	6/8/23 21:15	TG
Endosulfan II [1]	ND	0.073	0.0035	µg/L	1		SW-846 8081B	5/27/23	6/8/23 21:15	TG
Endosulfan sulfate [1]	ND	0.073	0.0058	µg/L	1		SW-846 8081B	5/27/23	6/8/23 21:15	TG
Endrin [1]	ND	0.073	0.0038	µg/L	1		SW-846 8081B	5/27/23	6/8/23 21:15	TG
Endrin aldehyde [1]	ND	0.073	0.0040	µg/L	1		SW-846 8081B	5/27/23	6/8/23 21:15	TG
Endrin ketone [1]	ND	0.073	0.0036	µg/L	1		SW-846 8081B	5/27/23	6/8/23 21:15	TG
Heptachlor [1]	ND	0.045	0.0055	µg/L	1		SW-846 8081B	5/27/23	6/8/23 21:15	TG
Heptachlor epoxide [1]	ND	0.045	0.0063	µg/L	1		SW-846 8081B	5/27/23	6/8/23 21:15	TG
Hexachlorobenzene [1]	ND	0.045	0.026	µg/L	1		SW-846 8081B	5/27/23	6/8/23 21:15	TG
Methoxychlor [1]	ND	0.45	0.0094	µg/L	1		SW-846 8081B	5/27/23	6/8/23 21:15	TG
Toxaphene [1]	ND	0.91	0.60	µg/L	1		SW-846 8081B	5/27/23	6/8/23 21:15	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	89.1		30-150						6/8/23 21:15	
Decachlorobiphenyl [2]	88.6		30-150						6/8/23 21:15	
Tetrachloro-m-xylene [1]	77.3		30-150						6/8/23 21:15	
Tetrachloro-m-xylene [2]	74.9		30-150						6/8/23 21:15	

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-22

Sampled: 5/23/2023 13:05

Sample ID: 23E3537-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.5	50	2.0	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Bromoform	ND	1.0	0.41	µg/L	1	MS-07A, V-05	SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 16:38	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	MS-07A, V-05	SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Methyl tert-Butyl Ether (MTBE)	3.7	1.0	0.17	µg/L	1	MS-07A	SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Tetrachloroethylene	2.7	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-22

Sampled: 5/23/2023 13:05

Sample ID: 23E3537-09

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Trichloroethylene	0.46	1.0	0.17	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/1/23	6/2/23 16:38	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	100	70-130	
Toluene-d8	99.5	70-130	
4-Bromofluorobenzene	91.0	70-130	

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-22

Sampled: 5/23/2023 13:05

Sample ID: 23E3537-09

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	19	1.6	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Benzaldehyde	ND	9.5	0.69	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Biphenyl	ND	19	0.88	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Caprolactam	ND	9.5	0.68	µg/L	1	L-04	SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Acenaphthene	ND	4.8	0.75	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Acenaphthylene	ND	4.8	0.61	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Acetophenone	ND	9.5	0.48	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Anthracene	ND	4.8	0.52	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Benzo(a)anthracene	ND	4.8	0.36	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Benzo(a)pyrene	ND	4.8	0.41	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Benzo(b)fluoranthene	ND	4.8	0.31	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Benzo(g,h,i)perylene	ND	4.8	0.50	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Benzo(k)fluoranthene	ND	4.8	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Bis(2-chloroethoxy)methane	ND	9.5	0.55	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Bis(2-chloroethyl)ether	ND	9.5	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Bis(2-chloroisopropyl)ether	ND	9.5	0.71	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.5	0.31	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
4-Bromophenylphenylether	ND	9.5	0.68	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Butylbenzylphthalate	ND	9.5	0.38	µg/L	1	V-05	SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Carbazole	ND	9.5	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
4-Chloroaniline	ND	9.5	4.9	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
4-Chloro-3-methylphenol	ND	9.5	0.60	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
2-Chloronaphthalene	ND	9.5	0.77	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
2-Chlorophenol	ND	9.5	0.39	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
4-Chlorophenylphenylether	ND	9.5	0.83	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Chrysene	ND	4.8	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Dibenz(a,h)anthracene	ND	4.8	0.45	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Dibenzofuran	ND	4.8	0.82	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Di-n-butylphthalate	ND	9.5	0.48	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
3,3-Dichlorobenzidine	ND	9.5	0.44	µg/L	1	MS-23	SW-846 8270E	5/30/23	6/7/23 2:18	BGL
2,4-Dichlorophenol	ND	9.5	0.45	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Diethylphthalate	ND	9.5	0.53	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
2,4-Dimethylphenol	ND	9.5	0.39	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Dimethylphthalate	ND	9.5	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.2	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
2,4-Dinitrophenol	ND	19	1.3	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
2,4-Dinitrotoluene	ND	9.5	0.33	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
2,6-Dinitrotoluene	ND	9.5	0.52	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Di-n-octylphthalate	ND	9.5	0.31	µg/L	1	V-05	SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Fluoranthene	ND	4.8	0.54	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Fluorene	ND	4.8	0.72	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Hexachlorobenzene	ND	9.5	0.69	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Hexachlorobutadiene	ND	9.5	1.2	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Hexachlorocyclopentadiene	ND	9.5	2.7	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-22

Sampled: 5/23/2023 13:05

Sample ID: 23E3537-09

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	9.5	1.2	µg/L	1	L-04, MS-09	SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Indeno(1,2,3-cd)pyrene	ND	4.8	0.45	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Isophorone	ND	9.5	0.52	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
2-Methylnaphthalene	ND	4.8	0.89	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
2-Methylphenol	ND	9.5	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
3/4-Methylphenol	ND	9.5	0.46	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Naphthalene	ND	4.8	0.86	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
2-Nitroaniline	ND	9.5	0.47	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
3-Nitroaniline	ND	9.5	0.49	µg/L	1	V-20	SW-846 8270E	5/30/23	6/7/23 2:18	BGL
4-Nitroaniline	ND	9.5	0.42	µg/L	1	V-20	SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Nitrobenzene	ND	9.5	0.64	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
2-Nitrophenol	ND	9.5	0.52	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
4-Nitrophenol	ND	19	1.2	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.5	0.46	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
N-Nitrosodi-n-propylamine	ND	9.5	0.62	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Pentachlorophenol	ND	9.5	0.46	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Phenanthrene	ND	4.8	0.68	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Phenol	ND	9.5	0.56	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Pyrene	ND	4.8	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.5	1.1	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
2,4,5-Trichlorophenol	ND	9.5	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
2,4,6-Trichlorophenol	ND	9.5	0.36	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:18	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	61.9		15-110				6/7/23 2:18			
Phenol-d6	42.9		15-110				6/7/23 2:18			
Nitrobenzene-d5	85.9		30-130				6/7/23 2:18			
2-Fluorobiphenyl	76.4		30-130				6/7/23 2:18			
2,4,6-Tribromophenol	104		15-110				6/7/23 2:18			
p-Terphenyl-d14	94.3		30-130				6/7/23 2:18			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-22

Sampled: 5/23/2023 13:05

Sample ID: 23E3537-09

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.031	µg/L	1		SW-846 8270E	5/26/23	5/30/23 19:47	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	23.7		15-110				5/30/23 19:47			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-22

Sampled: 5/23/2023 13:05

Sample ID: 23E3537-09

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.19	0.035	µg/L	1		SW-846 8081B	5/30/23	6/9/23 0:50	TG
Aldrin [1]	ND	0.047	0.0068	µg/L	1		SW-846 8081B	5/30/23	6/9/23 0:50	TG
alpha-BHC [1]	ND	0.047	0.0034	µg/L	1		SW-846 8081B	5/30/23	6/9/23 0:50	TG
beta-BHC [1]	ND	0.047	0.0077	µg/L	1		SW-846 8081B	5/30/23	6/9/23 0:50	TG
delta-BHC [1]	ND	0.047	0.0055	µg/L	1		SW-846 8081B	5/30/23	6/9/23 0:50	TG
gamma-BHC (Lindane) [1]	ND	0.028	0.0038	µg/L	1		SW-846 8081B	5/30/23	6/9/23 0:50	TG
Chlordane [1]	13	1.9	0.32	µg/L	10		SW-846 8081B	5/30/23	6/9/23 9:20	TG
4,4'-DDD [1]	ND	0.037	0.0039	µg/L	1		SW-846 8081B	5/30/23	6/9/23 0:50	TG
4,4'-DDE [1]	ND	0.037	0.0047	µg/L	1		SW-846 8081B	5/30/23	6/9/23 0:50	TG
4,4'-DDT [1]	ND	0.037	0.0057	µg/L	1		SW-846 8081B	5/30/23	6/9/23 0:50	TG
Dieldrin [1]	ND	0.0019	0.00095	µg/L	1		SW-846 8081B	5/30/23	6/9/23 0:50	TG
Endosulfan I [1]	ND	0.047	0.0048	µg/L	1		SW-846 8081B	5/30/23	6/9/23 0:50	TG
Endosulfan II [1]	ND	0.075	0.0036	µg/L	1		SW-846 8081B	5/30/23	6/9/23 0:50	TG
Endosulfan sulfate [1]	ND	0.075	0.0060	µg/L	1		SW-846 8081B	5/30/23	6/9/23 0:50	TG
Endrin [1]	ND	0.075	0.0039	µg/L	1		SW-846 8081B	5/30/23	6/9/23 0:50	TG
Endrin aldehyde [1]	ND	0.075	0.0042	µg/L	1		SW-846 8081B	5/30/23	6/9/23 0:50	TG
Endrin ketone [1]	ND	0.075	0.0037	µg/L	1		SW-846 8081B	5/30/23	6/9/23 0:50	TG
Heptachlor [1]	ND	0.047	0.0057	µg/L	1		SW-846 8081B	5/30/23	6/9/23 0:50	TG
Heptachlor epoxide [1]	ND	0.047	0.0064	µg/L	1		SW-846 8081B	5/30/23	6/9/23 0:50	TG
Hexachlorobenzene [1]	ND	0.047	0.026	µg/L	1		SW-846 8081B	5/30/23	6/9/23 0:50	TG
Methoxychlor [1]	ND	0.47	0.0097	µg/L	1		SW-846 8081B	5/30/23	6/9/23 0:50	TG
Toxaphene [1]	ND	0.93	0.62	µg/L	1		SW-846 8081B	5/30/23	6/9/23 0:50	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	85.7		30-150				6/9/23 0:50			
Decachlorobiphenyl [2]	86.2		30-150				6/9/23 0:50			
Tetrachloro-m-xylene [1]	62.2		30-150				6/9/23 0:50			
Tetrachloro-m-xylene [2]	56.6		30-150				6/9/23 0:50			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-17

Sampled: 5/23/2023 13:26

Sample ID: 23E3537-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Bromoform	ND	1.0	0.41	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 17:05	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
1,2-Dichlorobenzene	2.0	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
1,4-Dichlorobenzene	0.33	1.0	0.13	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Ethylbenzene	0.27	1.0	0.22	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 17:05	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Isopropylbenzene (Cumene)	0.48	1.0	0.15	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Methyl Cyclohexane	0.23	1.0	0.16	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Tetrachloroethylene	0.93	1.0	0.17	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-17

Sampled: 5/23/2023 13:26

Sample ID: 23E3537-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF
Xylenes (total)	3.7	1.0	1.0	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:05	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.2	70-130	
Toluene-d8	99.1	70-130	
4-Bromofluorobenzene	92.2	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-17

Sampled: 5/23/2023 13:26

Sample ID: 23E3537-10

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	18	1.5	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Benzaldehyde	ND	9.1	0.66	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Biphenyl	ND	18	0.84	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Caprolactam	ND	9.1	0.65	µg/L	1	L-04	SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Acenaphthene	ND	4.5	0.71	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Acenaphthylene	ND	4.5	0.58	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Acetophenone	ND	9.1	0.46	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Anthracene	ND	4.5	0.49	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Benzo(a)anthracene	ND	4.5	0.34	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Benzo(a)pyrene	ND	4.5	0.39	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Benzo(b)fluoranthene	ND	4.5	0.29	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Benzo(g,h,i)perylene	ND	4.5	0.47	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Benzo(k)fluoranthene	ND	4.5	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Bis(2-chloroethoxy)methane	ND	9.1	0.52	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Bis(2-chloroethyl)ether	ND	9.1	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Bis(2-chloroisopropyl)ether	ND	9.1	0.68	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.1	0.29	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
4-Bromophenylphenylether	ND	9.1	0.65	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Butylbenzylphthalate	ND	9.1	0.36	µg/L	1	V-05	SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Carbazole	ND	9.1	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
4-Chloroaniline	ND	9.1	4.7	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
4-Chloro-3-methylphenol	ND	9.1	0.58	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
2-Chloronaphthalene	ND	9.1	0.74	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
2-Chlorophenol	ND	9.1	0.37	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
4-Chlorophenylphenylether	ND	9.1	0.79	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Chrysene	ND	4.5	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Dibenz(a,h)anthracene	ND	4.5	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Dibenzofuran	ND	4.5	0.78	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Di-n-butylphthalate	ND	9.1	0.46	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
3,3-Dichlorobenzidine	ND	9.1	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
2,4-Dichlorophenol	ND	9.1	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Diethylphthalate	ND	9.1	0.51	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
2,4-Dimethylphenol	ND	9.1	0.37	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Dimethylphthalate	ND	9.1	0.40	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
4,6-Dinitro-2-methylphenol	ND	18	2.1	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
2,4-Dinitrophenol	ND	18	1.2	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
2,4-Dinitrotoluene	ND	9.1	0.32	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
2,6-Dinitrotoluene	ND	9.1	0.50	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Di-n-octylphthalate	ND	9.1	0.30	µg/L	1	V-05	SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Fluoranthene	ND	4.5	0.51	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Fluorene	ND	4.5	0.69	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Hexachlorobenzene	ND	9.1	0.66	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Hexachlorobutadiene	ND	9.1	1.1	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Hexachlorocyclopentadiene	ND	9.1	2.6	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-17

Sampled: 5/23/2023 13:26

Sample ID: 23E3537-10

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	9.1	1.1	µg/L	1	L-04	SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Indeno(1,2,3-cd)pyrene	ND	4.5	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Isophorone	ND	9.1	0.49	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
2-Methylnaphthalene	ND	4.5	0.85	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
2-Methylphenol	ND	9.1	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
3/4-Methylphenol	ND	9.1	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Naphthalene	ND	4.5	0.82	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
2-Nitroaniline	ND	9.1	0.45	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
3-Nitroaniline	ND	9.1	0.47	µg/L	1	V-20	SW-846 8270E	5/30/23	6/7/23 2:40	BGL
4-Nitroaniline	ND	9.1	0.40	µg/L	1	V-20	SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Nitrobenzene	ND	9.1	0.61	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
2-Nitrophenol	ND	9.1	0.49	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
4-Nitrophenol	ND	18	1.2	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.1	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
N-Nitrosodi-n-propylamine	ND	9.1	0.60	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Pentachlorophenol	ND	9.1	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Phenanthrene	ND	4.5	0.65	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Phenol	ND	9.1	0.54	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Pyrene	ND	4.5	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.1	1.1	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
2,4,5-Trichlorophenol	ND	9.1	0.41	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
2,4,6-Trichlorophenol	ND	9.1	0.34	µg/L	1		SW-846 8270E	5/30/23	6/7/23 2:40	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	55.5		15-110				6/7/23 2:40			
Phenol-d6	36.0		15-110				6/7/23 2:40			
Nitrobenzene-d5	78.4		30-130				6/7/23 2:40			
2-Fluorobiphenyl	77.0		30-130				6/7/23 2:40			
2,4,6-Tribromophenol	98.7		15-110				6/7/23 2:40			
p-Terphenyl-d14	89.2		30-130				6/7/23 2:40			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-17

Sampled: 5/23/2023 13:26

Sample ID: 23E3537-10

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.062	0.19	0.031	µg/L	1	J	SW-846 8270E	5/26/23	5/30/23 20:07	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	25.4		15-110				5/30/23 20:07			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-17

Sampled: 5/23/2023 13:26

Sample ID: 23E3537-10

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.18	0.034	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:56	TG
Aldrin [1]	ND	0.045	0.0065	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:56	TG
alpha-BHC [1]	ND	0.045	0.0033	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:56	TG
beta-BHC [1]	ND	0.045	0.0074	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:56	TG
delta-BHC [1]	ND	0.045	0.0053	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:56	TG
gamma-BHC (Lindane) [1]	ND	0.027	0.0037	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:56	TG
Chlordane [2]	0.55	0.18	0.046	µg/L	1	P-02	SW-846 8081B	5/27/23	6/9/23 10:56	TG
4,4'-DDD [1]	ND	0.036	0.0038	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:56	TG
4,4'-DDE [1]	ND	0.036	0.0045	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:56	TG
4,4'-DDT [1]	ND	0.036	0.0055	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:56	TG
Dieldrin [1]	ND	0.0018	0.00091	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:56	TG
Endosulfan I [1]	ND	0.045	0.0047	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:56	TG
Endosulfan II [1]	ND	0.072	0.0035	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:56	TG
Endosulfan sulfate [1]	ND	0.072	0.0058	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:56	TG
Endrin [1]	ND	0.072	0.0037	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:56	TG
Endrin aldehyde [1]	ND	0.072	0.0040	µg/L	1		SW-846 8081B	5/27/23	6/8/23 21:38	TG
Endrin ketone [1]	ND	0.072	0.0035	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:56	TG
Heptachlor [1]	ND	0.045	0.0055	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:56	TG
Heptachlor epoxide [1]	ND	0.045	0.0062	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:56	TG
Hexachlorobenzene [1]	ND	0.045	0.025	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:56	TG
Methoxychlor [1]	ND	0.45	0.0093	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:56	TG
Toxaphene [1]	ND	0.90	0.60	µg/L	1		SW-846 8081B	5/27/23	6/9/23 10:56	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	46.0		30-150				6/9/23 10:56			
Decachlorobiphenyl [2]	46.6		30-150				6/9/23 10:56			
Tetrachloro-m-xylene [1]	83.8		30-150				6/9/23 10:56			
Tetrachloro-m-xylene [2]	75.5		30-150				6/9/23 10:56			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-K-3

Sampled: 5/23/2023 14:30

Sample ID: 23E3537-11

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Bromoform	ND	1.0	0.41	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 17:32	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-K-3

Sampled: 5/23/2023 14:30

Sample ID: 23E3537-11

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:32	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.3	70-130	
Toluene-d8	98.1	70-130	
4-Bromofluorobenzene	90.1	70-130	

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-K-3

Sampled: 5/23/2023 14:30

Sample ID: 23E3537-11

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	19	1.5	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Benzaldehyde	ND	9.3	0.68	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Biphenyl	ND	19	0.86	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Caprolactam	ND	9.3	0.67	µg/L	1	L-04	SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Acenaphthene	ND	4.7	0.73	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Acenaphthylene	ND	4.7	0.60	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Acetophenone	ND	9.3	0.47	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Anthracene	ND	4.7	0.51	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Benzo(a)anthracene	ND	4.7	0.35	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Benzo(a)pyrene	ND	4.7	0.41	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Benzo(b)fluoranthene	ND	4.7	0.30	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Benzo(g,h,i)perylene	ND	4.7	0.49	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Benzo(k)fluoranthene	ND	4.7	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Bis(2-chloroethoxy)methane	ND	9.3	0.54	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Bis(2-chloroethyl)ether	ND	9.3	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Bis(2-chloroisopropyl)ether	ND	9.3	0.70	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.3	0.30	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
4-Bromophenylphenylether	ND	9.3	0.66	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Butylbenzylphthalate	ND	9.3	0.37	µg/L	1	V-05	SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Carbazole	ND	9.3	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
4-Chloroaniline	ND	9.3	4.9	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
4-Chloro-3-methylphenol	ND	9.3	0.59	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
2-Chloronaphthalene	ND	9.3	0.76	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
2-Chlorophenol	ND	9.3	0.38	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
4-Chlorophenylphenylether	ND	9.3	0.81	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Chrysene	ND	4.7	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Dibenz(a,h)anthracene	ND	4.7	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Dibenzofuran	ND	4.7	0.80	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Di-n-butylphthalate	ND	9.3	0.47	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
3,3-Dichlorobenzidine	ND	9.3	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
2,4-Dichlorophenol	ND	9.3	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Diethylphthalate	ND	9.3	0.52	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
2,4-Dimethylphenol	ND	9.3	0.38	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Dimethylphthalate	ND	9.3	0.41	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.2	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
2,4-Dinitrophenol	ND	19	1.2	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
2,4-Dinitrotoluene	ND	9.3	0.33	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
2,6-Dinitrotoluene	ND	9.3	0.51	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Di-n-octylphthalate	ND	9.3	0.31	µg/L	1	V-05	SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Fluoranthene	ND	4.7	0.53	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Fluorene	ND	4.7	0.71	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Hexachlorobenzene	ND	9.3	0.67	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Hexachlorobutadiene	ND	9.3	1.1	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Hexachlorocyclopentadiene	ND	9.3	2.7	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-K-3

Sampled: 5/23/2023 14:30

Sample ID: 23E3537-11

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	9.3	1.2	µg/L	1	L-04	SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Indeno(1,2,3-cd)pyrene	ND	4.7	0.44	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Isophorone	ND	9.3	0.51	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
2-Methylnaphthalene	ND	4.7	0.87	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
2-Methylphenol	ND	9.3	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
3/4-Methylphenol	ND	9.3	0.45	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Naphthalene	ND	4.7	0.85	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
2-Nitroaniline	ND	9.3	0.46	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
3-Nitroaniline	ND	9.3	0.48	µg/L	1	V-20	SW-846 8270E	5/30/23	6/7/23 3:02	BGL
4-Nitroaniline	ND	9.3	0.41	µg/L	1	V-20	SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Nitrobenzene	ND	9.3	0.63	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
2-Nitrophenol	ND	9.3	0.51	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
4-Nitrophenol	ND	19	1.2	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.3	0.45	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
N-Nitrosodi-n-propylamine	ND	9.3	0.61	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Pentachlorophenol	ND	9.3	0.45	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Phenanthrene	ND	4.7	0.67	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Phenol	ND	9.3	0.55	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Pyrene	ND	4.7	0.43	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.3	1.1	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
2,4,5-Trichlorophenol	ND	9.3	0.42	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
2,4,6-Trichlorophenol	ND	9.3	0.35	µg/L	1		SW-846 8270E	5/30/23	6/7/23 3:02	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	61.7		15-110				6/7/23 3:02			
Phenol-d6	39.7		15-110				6/7/23 3:02			
Nitrobenzene-d5	87.5		30-130				6/7/23 3:02			
2-Fluorobiphenyl	79.1		30-130				6/7/23 3:02			
2,4,6-Tribromophenol	91.6		15-110				6/7/23 3:02			
p-Terphenyl-d14	90.1		30-130				6/7/23 3:02			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-K-3

Sampled: 5/23/2023 14:30

Sample ID: 23E3537-11

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.031	µg/L	1		SW-846 8270E	5/26/23	5/30/23 20:27	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	31.1		15-110				5/30/23 20:27			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-K-3

Sampled: 5/23/2023 14:30

Sample ID: 23E3537-11

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.19	0.035	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:31	TG
Aldrin [1]	ND	0.046	0.0067	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:31	TG
alpha-BHC [1]	ND	0.046	0.0034	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:31	TG
beta-BHC [1]	ND	0.046	0.0077	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:31	TG
delta-BHC [1]	ND	0.046	0.0055	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:31	TG
gamma-BHC (Lindane) [1]	ND	0.028	0.0038	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:31	TG
Chlordane [1]	ND	0.19	0.031	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:31	TG
4,4'-DDD [1]	ND	0.037	0.0039	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:31	TG
4,4'-DDE [1]	ND	0.037	0.0047	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:31	TG
4,4'-DDT [1]	ND	0.037	0.0056	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:31	TG
Dieldrin [1]	ND	0.0019	0.00094	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:31	TG
Endosulfan I [1]	ND	0.046	0.0048	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:31	TG
Endosulfan II [1]	ND	0.074	0.0036	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:31	TG
Endosulfan sulfate [1]	ND	0.074	0.0059	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:31	TG
Endrin [1]	ND	0.074	0.0038	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:31	TG
Endrin aldehyde [1]	ND	0.074	0.0041	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:31	TG
Endrin ketone [1]	ND	0.074	0.0036	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:31	TG
Heptachlor [1]	ND	0.046	0.0056	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:31	TG
Heptachlor epoxide [1]	ND	0.046	0.0064	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:31	TG
Hexachlorobenzene [1]	ND	0.046	0.026	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:31	TG
Methoxychlor [1]	ND	0.46	0.0096	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:31	TG
Toxaphene [1]	ND	0.93	0.62	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:31	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	59.3		30-150				6/9/23 7:31			
Decachlorobiphenyl [2]	58.3		30-150				6/9/23 7:31			
Tetrachloro-m-xylene [1]	42.3		30-150				6/9/23 7:31			
Tetrachloro-m-xylene [2]	40.1		30-150				6/9/23 7:31			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-15S

Sampled: 5/23/2023 14:33

Sample ID: 23E3537-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Bromoform	ND	1.0	0.41	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 17:58	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-15S

Sampled: 5/23/2023 14:33

Sample ID: 23E3537-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/1/23	6/2/23 17:58	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.6	70-130	
Toluene-d8	99.1	70-130	
4-Bromofluorobenzene	90.0	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-15S

Sampled: 5/23/2023 14:33

Sample ID: 23E3537-12

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	18	1.5	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Benzaldehyde	ND	9.1	0.66	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Biphenyl	ND	18	0.84	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Caprolactam	ND	9.1	0.65	µg/L	1	L-04	SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Acenaphthene	ND	4.5	0.71	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Acenaphthylene	ND	4.5	0.58	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Acetophenone	ND	9.1	0.46	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Anthracene	ND	4.5	0.49	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Benzo(a)anthracene	ND	4.5	0.34	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Benzo(a)pyrene	ND	4.5	0.39	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Benzo(b)fluoranthene	ND	4.5	0.29	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Benzo(g,h,i)perylene	ND	4.5	0.47	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Benzo(k)fluoranthene	ND	4.5	0.42	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Bis(2-chloroethoxy)methane	ND	9.1	0.52	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Bis(2-chloroethyl)ether	ND	9.1	0.42	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Bis(2-chloroisopropyl)ether	ND	9.1	0.68	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.1	0.29	µg/L	1	V-04	SW-846 8270E	5/30/23	6/12/23 22:27	BGL
4-Bromophenylphenylether	ND	9.1	0.65	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Butylbenzylphthalate	ND	9.1	0.36	µg/L	1	V-35	SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Carbazole	ND	9.1	0.42	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
4-Chloroaniline	ND	9.1	4.7	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
4-Chloro-3-methylphenol	ND	9.1	0.58	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
2-Chloronaphthalene	ND	9.1	0.74	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
2-Chlorophenol	ND	9.1	0.37	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
4-Chlorophenylphenylether	ND	9.1	0.79	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Chrysene	ND	4.5	0.42	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Dibenz(a,h)anthracene	ND	4.5	0.43	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Dibenzofuran	ND	4.5	0.78	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Di-n-butylphthalate	ND	9.1	0.46	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
3,3-Dichlorobenzidine	ND	9.1	0.42	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
2,4-Dichlorophenol	ND	9.1	0.43	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Diethylphthalate	ND	9.1	0.51	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
2,4-Dimethylphenol	ND	9.1	0.37	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Dimethylphthalate	ND	9.1	0.40	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
4,6-Dinitro-2-methylphenol	ND	18	2.1	µg/L	1	V-04	SW-846 8270E	5/30/23	6/12/23 22:27	BGL
2,4-Dinitrophenol	ND	9.1	1.2	µg/L	1	V-04	SW-846 8270E	5/30/23	6/12/23 22:27	BGL
2,4-Dinitrotoluene	ND	9.1	0.32	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
2,6-Dinitrotoluene	ND	9.1	0.50	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Di-n-octylphthalate	ND	9.1	0.30	µg/L	1	V-04	SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Fluoranthene	ND	4.5	0.51	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Fluorene	ND	4.5	0.69	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Hexachlorobenzene	ND	9.1	0.66	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Hexachlorobutadiene	ND	9.1	1.1	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Hexachlorocyclopentadiene	ND	9.1	2.6	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-15S

Sampled: 5/23/2023 14:33

Sample ID: 23E3537-12

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	9.1	1.1	µg/L	1	L-04	SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Indeno(1,2,3-cd)pyrene	ND	4.5	0.43	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Isophorone	ND	9.1	0.49	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
2-Methylnaphthalene	ND	4.5	0.85	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
2-Methylphenol	ND	9.1	0.42	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
3/4-Methylphenol	ND	9.1	0.44	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Naphthalene	ND	4.5	0.82	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
2-Nitroaniline	ND	9.1	0.45	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
3-Nitroaniline	ND	9.1	0.47	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
4-Nitroaniline	ND	9.1	0.40	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Nitrobenzene	ND	9.1	0.61	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
2-Nitrophenol	ND	9.1	0.49	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
4-Nitrophenol	ND	9.1	1.2	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.1	0.44	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
N-Nitrosodi-n-propylamine	ND	9.1	0.60	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Pentachlorophenol	ND	9.1	0.44	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Phenanthrene	ND	4.5	0.65	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Phenol	ND	9.1	0.54	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Pyrene	ND	4.5	0.42	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.1	1.1	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
2,4,5-Trichlorophenol	ND	9.1	0.41	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
2,4,6-Trichlorophenol	ND	9.1	0.34	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:27	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	64.9		15-110				6/12/23 22:27			
Phenol-d6	42.5		15-110				6/12/23 22:27			
Nitrobenzene-d5	95.0		30-130				6/12/23 22:27			
2-Fluorobiphenyl	91.4		30-130				6/12/23 22:27			
2,4,6-Tribromophenol	101		15-110				6/12/23 22:27			
p-Terphenyl-d14	108		30-130				6/12/23 22:27			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-15S

Sampled: 5/23/2023 14:33

Sample ID: 23E3537-12

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.20	0.032	µg/L	1		SW-846 8270E	5/29/23	6/13/23 9:58	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	29.7		15-110				6/13/23 9:58			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-15S

Sampled: 5/23/2023 14:33

Sample ID: 23E3537-12

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.18	0.034	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:54	TG
Aldrin [1]	ND	0.045	0.0065	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:54	TG
alpha-BHC [1]	ND	0.045	0.0033	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:54	TG
beta-BHC [1]	ND	0.045	0.0074	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:54	TG
delta-BHC [1]	ND	0.045	0.0053	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:54	TG
gamma-BHC (Lindane) [1]	ND	0.027	0.0037	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:54	TG
Chlordane [2]	4.7	0.90	0.23	µg/L	5		SW-846 8081B	5/30/23	6/9/23 9:36	TG
4,4'-DDD [1]	ND	0.036	0.0038	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:54	TG
4,4'-DDE [1]	ND	0.036	0.0045	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:54	TG
4,4'-DDT [1]	ND	0.036	0.0055	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:54	TG
Dieldrin [1]	ND	0.0018	0.00091	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:54	TG
Endosulfan I [1]	ND	0.045	0.0047	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:54	TG
Endosulfan II [1]	ND	0.072	0.0035	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:54	TG
Endosulfan sulfate [1]	ND	0.072	0.0058	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:54	TG
Endrin [1]	ND	0.072	0.0037	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:54	TG
Endrin aldehyde [1]	ND	0.072	0.0040	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:54	TG
Endrin ketone [1]	ND	0.072	0.0035	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:54	TG
Heptachlor [1]	ND	0.045	0.0055	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:54	TG
Heptachlor epoxide [1]	ND	0.045	0.0062	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:54	TG
Hexachlorobenzene [1]	ND	0.045	0.025	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:54	TG
Methoxychlor [1]	ND	0.45	0.0093	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:54	TG
Toxaphene [1]	ND	0.90	0.60	µg/L	1		SW-846 8081B	5/30/23	6/9/23 7:54	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	82.9		30-150				6/9/23 7:54			
Decachlorobiphenyl [2]	86.9		30-150				6/9/23 7:54			
Tetrachloro-m-xylene [1]	84.7		30-150				6/9/23 7:54			
Tetrachloro-m-xylene [2]	81.4		30-150				6/9/23 7:54			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-21

Sampled: 5/23/2023 15:43

Sample ID: 23E3537-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Bromoform	ND	1.0	0.41	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 18:25	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
1,2-Dichlorobenzene	1.3	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
cis-1,2-Dichloroethylene	1.4	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Ethylbenzene	0.74	1.0	0.22	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 18:25	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Isopropylbenzene (Cumene)	0.67	1.0	0.15	µg/L	1	J	SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-21

Sampled: 5/23/2023 15:43

Sample ID: 23E3537-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:25	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.5	70-130	
Toluene-d8	99.5	70-130	
4-Bromofluorobenzene	92.6	70-130	

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-21

Sampled: 5/23/2023 15:43

Sample ID: 23E3537-13

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	19	1.6	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Benzaldehyde	ND	9.5	0.69	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Biphenyl	ND	19	0.88	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Caprolactam	ND	9.5	0.68	µg/L	1	L-04	SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Acenaphthene	ND	4.8	0.75	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Acenaphthylene	ND	4.8	0.61	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Acetophenone	ND	9.5	0.48	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Anthracene	ND	4.8	0.52	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Benzo(a)anthracene	ND	4.8	0.36	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Benzo(a)pyrene	ND	4.8	0.41	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Benzo(b)fluoranthene	ND	4.8	0.31	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Benzo(g,h,i)perylene	ND	4.8	0.50	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Benzo(k)fluoranthene	ND	4.8	0.44	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Bis(2-chloroethoxy)methane	ND	9.5	0.55	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Bis(2-chloroethyl)ether	ND	9.5	0.44	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Bis(2-chloroisopropyl)ether	ND	9.5	0.71	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.5	0.31	µg/L	1	V-04	SW-846 8270E	5/30/23	6/12/23 22:49	BGL
4-Bromophenylphenylether	ND	9.5	0.68	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Butylbenzylphthalate	ND	9.5	0.38	µg/L	1	V-35	SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Carbazole	ND	9.5	0.44	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
4-Chloroaniline	ND	9.5	4.9	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
4-Chloro-3-methylphenol	ND	9.5	0.60	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
2-Chloronaphthalene	ND	9.5	0.77	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
2-Chlorophenol	ND	9.5	0.39	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
4-Chlorophenylphenylether	ND	9.5	0.83	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Chrysene	ND	4.8	0.44	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Dibenz(a,h)anthracene	ND	4.8	0.45	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Dibenzofuran	ND	4.8	0.82	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Di-n-butylphthalate	ND	9.5	0.48	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
3,3-Dichlorobenzidine	ND	9.5	0.44	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
2,4-Dichlorophenol	ND	9.5	0.45	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Diethylphthalate	ND	9.5	0.53	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
2,4-Dimethylphenol	ND	9.5	0.39	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Dimethylphthalate	ND	9.5	0.42	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.2	µg/L	1	V-04	SW-846 8270E	5/30/23	6/12/23 22:49	BGL
2,4-Dinitrophenol	ND	9.5	1.3	µg/L	1	V-04	SW-846 8270E	5/30/23	6/12/23 22:49	BGL
2,4-Dinitrotoluene	ND	9.5	0.33	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
2,6-Dinitrotoluene	ND	9.5	0.52	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Di-n-octylphthalate	ND	9.5	0.31	µg/L	1	V-04	SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Fluoranthene	ND	4.8	0.54	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Fluorene	ND	4.8	0.72	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Hexachlorobenzene	ND	9.5	0.69	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Hexachlorobutadiene	ND	9.5	1.2	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Hexachlorocyclopentadiene	ND	9.5	2.7	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-21

Sampled: 5/23/2023 15:43

Sample ID: 23E3537-13

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	9.5	1.2	µg/L	1	L-04	SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Indeno(1,2,3-cd)pyrene	ND	4.8	0.45	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Isophorone	ND	9.5	0.52	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
2-Methylnaphthalene	ND	4.8	0.89	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
2-Methylphenol	ND	9.5	0.44	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
3/4-Methylphenol	ND	9.5	0.46	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Naphthalene	ND	4.8	0.86	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
2-Nitroaniline	ND	9.5	0.47	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
3-Nitroaniline	ND	9.5	0.49	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
4-Nitroaniline	ND	9.5	0.42	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Nitrobenzene	ND	9.5	0.64	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
2-Nitrophenol	ND	9.5	0.52	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
4-Nitrophenol	ND	9.5	1.2	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.5	0.46	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
N-Nitrosodi-n-propylamine	ND	9.5	0.62	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Pentachlorophenol	ND	9.5	0.46	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Phenanthrene	ND	4.8	0.68	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Phenol	ND	9.5	0.56	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Pyrene	ND	4.8	0.44	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.5	1.1	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
2,4,5-Trichlorophenol	ND	9.5	0.43	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
2,4,6-Trichlorophenol	ND	9.5	0.36	µg/L	1		SW-846 8270E	5/30/23	6/12/23 22:49	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	62.1		15-110				6/12/23 22:49			
Phenol-d6	41.9		15-110				6/12/23 22:49			
Nitrobenzene-d5	93.3		30-130				6/12/23 22:49			
2-Fluorobiphenyl	88.2		30-130				6/12/23 22:49			
2,4,6-Tribromophenol	97.7		15-110				6/12/23 22:49			
p-Terphenyl-d14	108		30-130				6/12/23 22:49			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-21

Sampled: 5/23/2023 15:43

Sample ID: 23E3537-13

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.055	0.19	0.032	µg/L	1	J	SW-846 8270E	5/29/23	6/8/23 10:51	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	30.7		15-110				6/8/23 10:51			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-21

Sampled: 5/23/2023 15:43

Sample ID: 23E3537-13

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.18	0.034	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:44	TG
Aldrin [1]	ND	0.045	0.0066	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:44	TG
alpha-BHC [2]	ND	0.045	0.0040	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:44	TG
beta-BHC [1]	ND	0.045	0.0075	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:44	TG
delta-BHC [1]	ND	0.045	0.0054	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:44	TG
gamma-BHC (Lindane) [1]	ND	0.027	0.0037	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:44	TG
Chlordane [1]	ND	0.18	0.031	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:44	TG
4,4'-DDD [1]	ND	0.036	0.0038	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:44	TG
4,4'-DDE [1]	ND	0.036	0.0046	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:44	TG
4,4'-DDT [1]	ND	0.036	0.0055	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:44	TG
Dieldrin [1]	ND	0.0018	0.00092	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:44	TG
Endosulfan I [1]	ND	0.045	0.0047	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:44	TG
Endosulfan II [1]	ND	0.073	0.0035	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:44	TG
Endosulfan sulfate [1]	ND	0.073	0.0058	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:44	TG
Endrin [1]	ND	0.073	0.0038	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:44	TG
Endrin aldehyde [1]	ND	0.073	0.0040	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:44	TG
Endrin ketone [1]	ND	0.073	0.0036	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:44	TG
Heptachlor [1]	ND	0.045	0.0055	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:44	TG
Heptachlor epoxide [1]	ND	0.045	0.0063	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:44	TG
Hexachlorobenzene [1]	ND	0.045	0.026	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:44	TG
Methoxychlor [1]	ND	0.45	0.0094	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:44	TG
Toxaphene [1]	ND	0.91	0.60	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:44	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	100		30-150				6/9/23 12:44			
Decachlorobiphenyl [2]	98.5		30-150				6/9/23 12:44			
Tetrachloro-m-xylene [1]	83.4		30-150				6/9/23 12:44			
Tetrachloro-m-xylene [2]	80.6		30-150				6/9/23 12:44			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-24

Sampled: 5/23/2023 15:54

Sample ID: 23E3537-14

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Bromoform	ND	1.0	0.41	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 18:52	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	V-05	SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-24

Sampled: 5/23/2023 15:54

Sample ID: 23E3537-14

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/1/23	6/2/23 18:52	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.2	70-130	
Toluene-d8	97.4	70-130	
4-Bromofluorobenzene	91.2	70-130	

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-24

Sampled: 5/23/2023 15:54

Sample ID: 23E3537-14

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	19	1.6	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Benzaldehyde	ND	9.4	0.68	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Biphenyl	ND	19	0.87	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Caprolactam	ND	9.4	0.68	µg/L	1	L-04	SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Acenaphthene	ND	4.7	0.74	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Acenaphthylene	ND	4.7	0.60	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Acetophenone	ND	9.4	0.47	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Anthracene	ND	4.7	0.51	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Benzo(a)anthracene	ND	4.7	0.36	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Benzo(a)pyrene	ND	4.7	0.41	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Benzo(b)fluoranthene	ND	4.7	0.31	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Benzo(g,h,i)perylene	ND	4.7	0.49	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Benzo(k)fluoranthene	ND	4.7	0.43	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Bis(2-chloroethoxy)methane	ND	9.4	0.54	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Bis(2-chloroethyl)ether	ND	9.4	0.43	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Bis(2-chloroisopropyl)ether	ND	9.4	0.71	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.4	0.31	µg/L	1	V-04	SW-846 8270E	5/30/23	6/12/23 23:11	BGL
4-Bromophenylphenylether	ND	9.4	0.67	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Butylbenzylphthalate	ND	9.4	0.37	µg/L	1	V-35	SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Carbazole	ND	9.4	0.43	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
4-Chloroaniline	ND	9.4	4.9	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
4-Chloro-3-methylphenol	ND	9.4	0.60	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
2-Chloronaphthalene	ND	9.4	0.77	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
2-Chlorophenol	ND	9.4	0.39	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
4-Chlorophenylphenylether	ND	9.4	0.82	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Chrysene	ND	4.7	0.43	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Dibenz(a,h)anthracene	ND	4.7	0.45	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Dibenzofuran	ND	4.7	0.81	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Di-n-butylphthalate	ND	9.4	0.47	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
3,3-Dichlorobenzidine	ND	9.4	0.43	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
2,4-Dichlorophenol	ND	9.4	0.44	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Diethylphthalate	ND	9.4	0.53	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
2,4-Dimethylphenol	ND	9.4	0.39	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Dimethylphthalate	ND	9.4	0.41	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.2	µg/L	1	V-04	SW-846 8270E	5/30/23	6/12/23 23:11	BGL
2,4-Dinitrophenol	ND	9.4	1.3	µg/L	1	V-04	SW-846 8270E	5/30/23	6/12/23 23:11	BGL
2,4-Dinitrotoluene	ND	9.4	0.33	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
2,6-Dinitrotoluene	ND	9.4	0.52	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Di-n-octylphthalate	ND	9.4	0.31	µg/L	1	V-04	SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Fluoranthene	ND	4.7	0.53	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Fluorene	ND	4.7	0.72	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Hexachlorobenzene	ND	9.4	0.68	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Hexachlorobutadiene	ND	9.4	1.2	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Hexachlorocyclopentadiene	ND	9.4	2.7	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-24

Sampled: 5/23/2023 15:54

Sample ID: 23E3537-14

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	9.4	1.2	µg/L	1	L-04	SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Indeno(1,2,3-cd)pyrene	ND	4.7	0.45	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Isophorone	ND	9.4	0.51	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
2-Methylnaphthalene	ND	4.7	0.88	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
2-Methylphenol	ND	9.4	0.43	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
3/4-Methylphenol	ND	9.4	0.45	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Naphthalene	ND	4.7	0.85	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
2-Nitroaniline	ND	9.4	0.47	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
3-Nitroaniline	ND	9.4	0.49	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
4-Nitroaniline	ND	9.4	0.41	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Nitrobenzene	ND	9.4	0.64	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
2-Nitrophenol	ND	9.4	0.51	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
4-Nitrophenol	ND	9.4	1.2	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.4	0.45	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
N-Nitrosodi-n-propylamine	ND	9.4	0.62	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Pentachlorophenol	ND	9.4	0.45	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Phenanthrene	ND	4.7	0.68	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Phenol	ND	9.4	0.56	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
Pyrene	ND	4.7	0.43	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.4	1.1	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
2,4,5-Trichlorophenol	ND	9.4	0.43	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL
2,4,6-Trichlorophenol	ND	9.4	0.36	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:11	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
2-Fluorophenol	58.0	15-110	
Phenol-d6	39.0	15-110	
Nitrobenzene-d5	80.0	30-130	
2-Fluorobiphenyl	72.2	30-130	
2,4,6-Tribromophenol	84.5	15-110	
p-Terphenyl-d14	98.0	30-130	

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-24

Sampled: 5/23/2023 15:54

Sample ID: 23E3537-14

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.032	µg/L	1		SW-846 8270E	5/30/23	6/9/23 18:28	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	28.3		15-110				6/9/23 18:28			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-24

Sampled: 5/23/2023 15:54

Sample ID: 23E3537-14

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.19	0.036	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:59	TG
Aldrin [1]	ND	0.047	0.0068	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:59	TG
alpha-BHC [2]	ND	0.047	0.0042	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:59	TG
beta-BHC [1]	ND	0.047	0.0078	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:59	TG
delta-BHC [1]	ND	0.047	0.0056	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:59	TG
gamma-BHC (Lindane) [1]	ND	0.028	0.0039	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:59	TG
Chlordane [1]	ND	0.19	0.032	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:59	TG
4,4'-DDD [1]	ND	0.038	0.0040	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:59	TG
4,4'-DDE [1]	ND	0.038	0.0047	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:59	TG
4,4'-DDT [1]	ND	0.038	0.0057	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:59	TG
Dieldrin [1]	ND	0.0019	0.00096	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:59	TG
Endosulfan I [1]	ND	0.047	0.0049	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:59	TG
Endosulfan II [1]	ND	0.075	0.0036	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:59	TG
Endosulfan sulfate [1]	ND	0.075	0.0061	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:59	TG
Endrin [1]	ND	0.075	0.0039	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:59	TG
Endrin aldehyde [1]	ND	0.075	0.0042	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:59	TG
Endrin ketone [1]	ND	0.075	0.0037	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:59	TG
Heptachlor [1]	ND	0.047	0.0057	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:59	TG
Heptachlor epoxide [1]	ND	0.047	0.0065	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:59	TG
Hexachlorobenzene [1]	ND	0.047	0.027	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:59	TG
Methoxychlor [1]	ND	0.47	0.0098	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:59	TG
Toxaphene [1]	ND	0.94	0.63	µg/L	1		SW-846 8081B	5/30/23	6/9/23 12:59	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	107		30-150				6/9/23 12:59			
Decachlorobiphenyl [2]	106		30-150				6/9/23 12:59			
Tetrachloro-m-xylene [1]	93.3		30-150				6/9/23 12:59			
Tetrachloro-m-xylene [2]	91.3		30-150				6/9/23 12:59			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-8S

Sampled: 5/23/2023 16:56

Sample ID: 23E3537-15

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Bromoform	ND	1.0	0.41	µg/L	1	V-05	SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/1/23	6/3/23 1:05	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-8S

Sampled: 5/23/2023 16:56

Sample ID: 23E3537-15

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:05	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	98.9	70-130	
Toluene-d8	98.8	70-130	
4-Bromofluorobenzene	90.6	70-130	

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-8S

Sampled: 5/23/2023 16:56

Sample ID: 23E3537-15

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	18	1.5	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Benzaldehyde	ND	9.1	0.66	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Biphenyl	ND	18	0.84	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Caprolactam	ND	9.1	0.65	µg/L	1	L-04	SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Acenaphthene	ND	4.5	0.71	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Acenaphthylene	ND	4.5	0.58	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Acetophenone	ND	9.1	0.46	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Anthracene	ND	4.5	0.49	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Benzo(a)anthracene	ND	4.5	0.34	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Benzo(a)pyrene	ND	4.5	0.39	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Benzo(b)fluoranthene	ND	4.5	0.29	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Benzo(g,h,i)perylene	ND	4.5	0.47	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Benzo(k)fluoranthene	ND	4.5	0.42	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Bis(2-chloroethoxy)methane	ND	9.1	0.52	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Bis(2-chloroethyl)ether	ND	9.1	0.42	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Bis(2-chloroisopropyl)ether	ND	9.1	0.68	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.1	0.29	µg/L	1	V-04	SW-846 8270E	5/30/23	6/12/23 23:33	BGL
4-Bromophenylphenylether	ND	9.1	0.65	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Butylbenzylphthalate	ND	9.1	0.36	µg/L	1	V-35	SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Carbazole	ND	9.1	0.42	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
4-Chloroaniline	ND	9.1	4.7	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
4-Chloro-3-methylphenol	ND	9.1	0.58	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
2-Chloronaphthalene	ND	9.1	0.74	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
2-Chlorophenol	ND	9.1	0.37	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
4-Chlorophenylphenylether	ND	9.1	0.79	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Chrysene	ND	4.5	0.42	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Dibenz(a,h)anthracene	ND	4.5	0.43	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Dibenzofuran	ND	4.5	0.78	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Di-n-butylphthalate	ND	9.1	0.46	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
3,3-Dichlorobenzidine	ND	9.1	0.42	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
2,4-Dichlorophenol	ND	9.1	0.43	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Diethylphthalate	ND	9.1	0.51	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
2,4-Dimethylphenol	ND	9.1	0.37	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Dimethylphthalate	ND	9.1	0.40	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
4,6-Dinitro-2-methylphenol	ND	18	2.1	µg/L	1	V-04	SW-846 8270E	5/30/23	6/12/23 23:33	BGL
2,4-Dinitrophenol	ND	9.1	1.2	µg/L	1	V-04	SW-846 8270E	5/30/23	6/12/23 23:33	BGL
2,4-Dinitrotoluene	ND	9.1	0.32	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
2,6-Dinitrotoluene	ND	9.1	0.50	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Di-n-octylphthalate	ND	9.1	0.30	µg/L	1	V-04	SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Fluoranthene	ND	4.5	0.51	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Fluorene	ND	4.5	0.69	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Hexachlorobenzene	ND	9.1	0.66	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Hexachlorobutadiene	ND	9.1	1.1	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Hexachlorocyclopentadiene	ND	9.1	2.6	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-8S

Sampled: 5/23/2023 16:56

Sample ID: 23E3537-15

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	9.1	1.1	µg/L	1	L-04	SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Indeno(1,2,3-cd)pyrene	ND	4.5	0.43	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Isophorone	ND	9.1	0.49	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
2-Methylnaphthalene	ND	4.5	0.85	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
2-Methylphenol	ND	9.1	0.42	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
3/4-Methylphenol	ND	9.1	0.44	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Naphthalene	ND	4.5	0.82	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
2-Nitroaniline	ND	9.1	0.45	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
3-Nitroaniline	ND	9.1	0.47	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
4-Nitroaniline	ND	9.1	0.40	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Nitrobenzene	ND	9.1	0.61	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
2-Nitrophenol	ND	9.1	0.49	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
4-Nitrophenol	ND	9.1	1.2	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.1	0.44	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
N-Nitrosodi-n-propylamine	ND	9.1	0.60	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Pentachlorophenol	ND	9.1	0.44	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Phenanthrene	ND	4.5	0.65	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Phenol	ND	9.1	0.54	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Pyrene	ND	4.5	0.42	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.1	1.1	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
2,4,5-Trichlorophenol	ND	9.1	0.41	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
2,4,6-Trichlorophenol	ND	9.1	0.34	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:33	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	63.2		15-110				6/12/23 23:33			
Phenol-d6	42.1		15-110				6/12/23 23:33			
Nitrobenzene-d5	91.4		30-130				6/12/23 23:33			
2-Fluorobiphenyl	86.8		30-130				6/12/23 23:33			
2,4,6-Tribromophenol	94.3		15-110				6/12/23 23:33			
p-Terphenyl-d14	106		30-130				6/12/23 23:33			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-8S

Sampled: 5/23/2023 16:56

Sample ID: 23E3537-15

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.032	µg/L	1		SW-846 8270E	5/30/23	6/9/23 18:48	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	23.5		15-110				6/9/23 18:48			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-8S

Sampled: 5/23/2023 16:56

Sample ID: 23E3537-15

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.19	0.036	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:15	TG
Aldrin [1]	ND	0.048	0.0069	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:15	TG
alpha-BHC [2]	ND	0.048	0.0042	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:15	TG
beta-BHC [1]	ND	0.048	0.0079	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:15	TG
delta-BHC [1]	ND	0.048	0.0056	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:15	TG
gamma-BHC (Lindane) [1]	ND	0.029	0.0039	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:15	TG
Chlordane [1]	ND	0.19	0.032	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:15	TG
4,4'-DDD [1]	ND	0.038	0.0040	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:15	TG
4,4'-DDE [1]	ND	0.038	0.0048	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:15	TG
4,4'-DDT [1]	ND	0.038	0.0058	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:15	TG
Dieldrin [1]	ND	0.0019	0.00097	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:15	TG
Endosulfan I [1]	ND	0.048	0.0049	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:15	TG
Endosulfan II [1]	ND	0.076	0.0037	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:15	TG
Endosulfan sulfate [1]	ND	0.076	0.0061	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:15	TG
Endrin [1]	ND	0.076	0.0039	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:15	TG
Endrin aldehyde [1]	ND	0.076	0.0042	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:15	TG
Endrin ketone [1]	ND	0.076	0.0037	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:15	TG
Heptachlor [1]	ND	0.048	0.0058	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:15	TG
Heptachlor epoxide [1]	ND	0.048	0.0065	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:15	TG
Hexachlorobenzene [1]	ND	0.048	0.027	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:15	TG
Methoxychlor [1]	ND	0.48	0.0099	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:15	TG
Toxaphene [1]	ND	0.95	0.63	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:15	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	95.9		30-150				6/9/23 13:15			
Decachlorobiphenyl [2]	96.1		30-150				6/9/23 13:15			
Tetrachloro-m-xylene [1]	87.7		30-150				6/9/23 13:15			
Tetrachloro-m-xylene [2]	85.5		30-150				6/9/23 13:15			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-DUP-1-GW

Sampled: 5/23/2023 00:00

Sample ID: 23E3537-16

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Bromoform	ND	1.0	0.41	µg/L	1	V-05	SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/1/23	6/3/23 1:32	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-DUP-1-GW

Sampled: 5/23/2023 00:00

Sample ID: 23E3537-16

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:32	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.8	70-130	
Toluene-d8	99.0	70-130	
4-Bromofluorobenzene	90.4	70-130	

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-DUP-1-GW

Sampled: 5/23/2023 00:00

Sample ID: 23E3537-16

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	18	1.5	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Benzaldehyde	ND	9.2	0.66	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Biphenyl	ND	18	0.85	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Caprolactam	ND	9.2	0.66	µg/L	1	L-04	SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Acenaphthene	ND	4.6	0.72	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Acenaphthylene	ND	4.6	0.59	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Acetophenone	ND	9.2	0.46	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Anthracene	ND	4.6	0.50	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Benzo(a)anthracene	ND	4.6	0.35	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Benzo(a)pyrene	ND	4.6	0.40	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Benzo(b)fluoranthene	ND	4.6	0.30	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Benzo(g,h,i)perylene	ND	4.6	0.48	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Benzo(k)fluoranthene	ND	4.6	0.42	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Bis(2-chloroethoxy)methane	ND	9.2	0.53	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Bis(2-chloroethyl)ether	ND	9.2	0.42	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Bis(2-chloroisopropyl)ether	ND	9.2	0.69	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.2	0.30	µg/L	1	V-04	SW-846 8270E	5/30/23	6/12/23 23:55	BGL
4-Bromophenylphenylether	ND	9.2	0.65	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Butylbenzylphthalate	ND	9.2	0.36	µg/L	1	V-35	SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Carbazole	ND	9.2	0.42	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
4-Chloroaniline	ND	9.2	4.8	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
4-Chloro-3-methylphenol	ND	9.2	0.58	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
2-Chloronaphthalene	ND	9.2	0.75	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
2-Chlorophenol	ND	9.2	0.38	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
4-Chlorophenylphenylether	ND	9.2	0.80	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Chrysene	ND	4.6	0.42	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Dibenz(a,h)anthracene	ND	4.6	0.44	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Dibenzofuran	ND	4.6	0.79	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Di-n-butylphthalate	ND	9.2	0.46	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
3,3-Dichlorobenzidine	ND	9.2	0.42	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
2,4-Dichlorophenol	ND	9.2	0.43	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Diethylphthalate	ND	9.2	0.51	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
2,4-Dimethylphenol	ND	9.2	0.38	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Dimethylphthalate	ND	9.2	0.40	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
4,6-Dinitro-2-methylphenol	ND	18	2.1	µg/L	1	V-04	SW-846 8270E	5/30/23	6/12/23 23:55	BGL
2,4-Dinitrophenol	ND	9.2	1.2	µg/L	1	V-04	SW-846 8270E	5/30/23	6/12/23 23:55	BGL
2,4-Dinitrotoluene	ND	9.2	0.32	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
2,6-Dinitrotoluene	ND	9.2	0.50	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Di-n-octylphthalate	ND	9.2	0.30	µg/L	1	V-04	SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Fluoranthene	ND	4.6	0.52	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Fluorene	ND	4.6	0.70	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Hexachlorobenzene	ND	9.2	0.66	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Hexachlorobutadiene	ND	9.2	1.1	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Hexachlorocyclopentadiene	ND	9.2	2.6	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-DUP-1-GW

Sampled: 5/23/2023 00:00

Sample ID: 23E3537-16

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	9.2	1.1	µg/L	1	L-04	SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Indeno(1,2,3-cd)pyrene	ND	4.6	0.44	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Isophorone	ND	9.2	0.50	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
2-Methylnaphthalene	ND	4.6	0.86	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
2-Methylphenol	ND	9.2	0.42	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
3/4-Methylphenol	ND	9.2	0.44	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Naphthalene	ND	4.6	0.83	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
2-Nitroaniline	ND	9.2	0.46	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
3-Nitroaniline	ND	9.2	0.47	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
4-Nitroaniline	ND	9.2	0.40	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Nitrobenzene	ND	9.2	0.62	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
2-Nitrophenol	ND	9.2	0.50	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
4-Nitrophenol	ND	9.2	1.2	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.2	0.44	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
N-Nitrosodi-n-propylamine	ND	9.2	0.60	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Pentachlorophenol	ND	9.2	0.44	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Phenanthrene	ND	4.6	0.66	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Phenol	ND	9.2	0.54	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Pyrene	ND	4.6	0.42	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.2	1.1	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
2,4,5-Trichlorophenol	ND	9.2	0.42	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
2,4,6-Trichlorophenol	ND	9.2	0.35	µg/L	1		SW-846 8270E	5/30/23	6/12/23 23:55	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	67.7		15-110				6/12/23 23:55			
Phenol-d6	44.4		15-110				6/12/23 23:55			
Nitrobenzene-d5	94.0		30-130				6/12/23 23:55			
2-Fluorobiphenyl	90.3		30-130				6/12/23 23:55			
2,4,6-Tribromophenol	96.8		15-110				6/12/23 23:55			
p-Terphenyl-d14	108		30-130				6/12/23 23:55			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-DUP-1-GW

Sampled: 5/23/2023 00:00

Sample ID: 23E3537-16

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.032	µg/L	1		SW-846 8270E	5/26/23	5/30/23 20:47	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	29.2		15-110				5/30/23 20:47			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-DUP-1-GW

Sampled: 5/23/2023 00:00

Sample ID: 23E3537-16

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.18	0.034	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:31	TG
Aldrin [1]	ND	0.045	0.0066	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:31	TG
alpha-BHC [2]	ND	0.045	0.0040	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:31	TG
beta-BHC [1]	ND	0.045	0.0075	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:31	TG
delta-BHC [1]	ND	0.045	0.0054	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:31	TG
gamma-BHC (Lindane) [1]	ND	0.027	0.0037	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:31	TG
Chlordane [1]	ND	0.18	0.031	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:31	TG
4,4'-DDD [1]	ND	0.036	0.0038	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:31	TG
4,4'-DDE [1]	ND	0.036	0.0046	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:31	TG
4,4'-DDT [1]	ND	0.036	0.0055	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:31	TG
Dieldrin [1]	ND	0.0018	0.00092	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:31	TG
Endosulfan I [1]	ND	0.045	0.0047	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:31	TG
Endosulfan II [1]	ND	0.073	0.0035	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:31	TG
Endosulfan sulfate [1]	ND	0.073	0.0058	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:31	TG
Endrin [1]	ND	0.073	0.0038	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:31	TG
Endrin aldehyde [1]	ND	0.073	0.0040	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:31	TG
Endrin ketone [1]	ND	0.073	0.0036	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:31	TG
Heptachlor [1]	ND	0.045	0.0055	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:31	TG
Heptachlor epoxide [1]	ND	0.045	0.0063	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:31	TG
Hexachlorobenzene [1]	ND	0.045	0.026	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:31	TG
Methoxychlor [1]	ND	0.45	0.0094	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:31	TG
Toxaphene [1]	ND	0.91	0.60	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:31	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	101		30-150				6/9/23 13:31			
Decachlorobiphenyl [2]	103		30-150				6/9/23 13:31			
Tetrachloro-m-xylene [1]	86.3		30-150				6/9/23 13:31			
Tetrachloro-m-xylene [2]	83.1		30-150				6/9/23 13:31			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-20

Sampled: 5/23/2023 17:16

Sample ID: 23E3537-17

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Bromoform	ND	1.0	0.41	µg/L	1	V-05	SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Chloroform	0.91	2.0	0.14	µg/L	1	J	SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/1/23	6/3/23 1:58	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-20

Sampled: 5/23/2023 17:16

Sample ID: 23E3537-17

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/1/23	6/3/23 1:58	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.2	70-130	
Toluene-d8	98.4	70-130	
4-Bromofluorobenzene	90.7	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-20

Sampled: 5/23/2023 17:16

Sample ID: 23E3537-17

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	18	1.5	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Benzaldehyde	ND	9.2	0.66	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Biphenyl	ND	18	0.85	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Caprolactam	ND	9.2	0.66	µg/L	1	L-04	SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Acenaphthene	ND	4.6	0.72	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Acenaphthylene	ND	4.6	0.59	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Acetophenone	ND	9.2	0.46	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Anthracene	ND	4.6	0.50	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Benzo(a)anthracene	ND	4.6	0.35	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Benzo(a)pyrene	ND	4.6	0.40	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Benzo(b)fluoranthene	ND	4.6	0.30	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Benzo(g,h,i)perylene	ND	4.6	0.48	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Benzo(k)fluoranthene	ND	4.6	0.42	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Bis(2-chloroethoxy)methane	ND	9.2	0.53	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Bis(2-chloroethyl)ether	ND	9.2	0.42	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Bis(2-chloroisopropyl)ether	ND	9.2	0.69	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.2	0.30	µg/L	1	V-04	SW-846 8270E	5/30/23	6/13/23 0:17	BGL
4-Bromophenylphenylether	ND	9.2	0.65	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Butylbenzylphthalate	ND	9.2	0.36	µg/L	1	V-35	SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Carbazole	ND	9.2	0.42	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
4-Chloroaniline	ND	9.2	4.8	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
4-Chloro-3-methylphenol	ND	9.2	0.58	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
2-Chloronaphthalene	ND	9.2	0.75	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
2-Chlorophenol	ND	9.2	0.38	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
4-Chlorophenylphenylether	ND	9.2	0.80	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Chrysene	ND	4.6	0.42	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Dibenz(a,h)anthracene	ND	4.6	0.44	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Dibenzofuran	ND	4.6	0.79	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Di-n-butylphthalate	ND	9.2	0.46	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
3,3-Dichlorobenzidine	ND	9.2	0.42	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
2,4-Dichlorophenol	ND	9.2	0.43	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Diethylphthalate	ND	9.2	0.51	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
2,4-Dimethylphenol	ND	9.2	0.38	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Dimethylphthalate	ND	9.2	0.40	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
4,6-Dinitro-2-methylphenol	ND	18	2.1	µg/L	1	V-04	SW-846 8270E	5/30/23	6/13/23 0:17	BGL
2,4-Dinitrophenol	ND	9.2	1.2	µg/L	1	V-04	SW-846 8270E	5/30/23	6/13/23 0:17	BGL
2,4-Dinitrotoluene	ND	9.2	0.32	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
2,6-Dinitrotoluene	ND	9.2	0.50	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Di-n-octylphthalate	ND	9.2	0.30	µg/L	1	V-04	SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Fluoranthene	ND	4.6	0.52	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Fluorene	ND	4.6	0.70	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Hexachlorobenzene	ND	9.2	0.66	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Hexachlorobutadiene	ND	9.2	1.1	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Hexachlorocyclopentadiene	ND	9.2	2.6	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-20

Sampled: 5/23/2023 17:16

Sample ID: 23E3537-17

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	9.2	1.1	µg/L	1	L-04	SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Indeno(1,2,3-cd)pyrene	ND	4.6	0.44	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Isophorone	ND	9.2	0.50	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
2-Methylnaphthalene	ND	4.6	0.86	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
2-Methylphenol	ND	9.2	0.42	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
3/4-Methylphenol	ND	9.2	0.44	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Naphthalene	ND	4.6	0.83	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
2-Nitroaniline	ND	9.2	0.46	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
3-Nitroaniline	ND	9.2	0.47	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
4-Nitroaniline	ND	9.2	0.40	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Nitrobenzene	ND	9.2	0.62	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
2-Nitrophenol	ND	9.2	0.50	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
4-Nitrophenol	ND	9.2	1.2	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.2	0.44	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
N-Nitrosodi-n-propylamine	ND	9.2	0.60	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Pentachlorophenol	ND	9.2	0.44	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Phenanthrene	ND	4.6	0.66	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Phenol	ND	9.2	0.54	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Pyrene	ND	4.6	0.42	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.2	1.1	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
2,4,5-Trichlorophenol	ND	9.2	0.42	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
2,4,6-Trichlorophenol	ND	9.2	0.35	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:17	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	68.6		15-110				6/13/23 0:17			
Phenol-d6	44.9		15-110				6/13/23 0:17			
Nitrobenzene-d5	91.9		30-130				6/13/23 0:17			
2-Fluorobiphenyl	89.6		30-130				6/13/23 0:17			
2,4,6-Tribromophenol	95.1		15-110				6/13/23 0:17			
p-Terphenyl-d14	107		30-130				6/13/23 0:17			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-20

Sampled: 5/23/2023 17:16

Sample ID: 23E3537-17

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.20	0.033	µg/L	1		SW-846 8270E	5/30/23	6/9/23 19:08	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	25.8		15-110				6/9/23 19:08			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3537

Date Received: 5/25/2023

Field Sample #: 518014-MW-20

Sampled: 5/23/2023 17:16

Sample ID: 23E3537-17

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.18	0.035	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:47	TG
Aldrin [1]	ND	0.046	0.0066	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:47	TG
alpha-BHC [2]	ND	0.046	0.0041	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:47	TG
beta-BHC [1]	ND	0.046	0.0076	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:47	TG
delta-BHC [1]	ND	0.046	0.0054	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:47	TG
gamma-BHC (Lindane) [1]	ND	0.028	0.0038	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:47	TG
Chlordane [1]	ND	0.18	0.031	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:47	TG
4,4'-DDD [1]	ND	0.037	0.0039	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:47	TG
4,4'-DDE [1]	ND	0.037	0.0046	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:47	TG
4,4'-DDT [1]	ND	0.037	0.0056	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:47	TG
Dieldrin [1]	ND	0.0018	0.00093	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:47	TG
Endosulfan I [1]	ND	0.046	0.0047	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:47	TG
Endosulfan II [1]	ND	0.073	0.0035	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:47	TG
Endosulfan sulfate [1]	ND	0.073	0.0059	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:47	TG
Endrin [1]	ND	0.073	0.0038	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:47	TG
Endrin aldehyde [1]	ND	0.073	0.0041	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:47	TG
Endrin ketone [1]	ND	0.073	0.0036	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:47	TG
Heptachlor [1]	ND	0.046	0.0056	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:47	TG
Heptachlor epoxide [1]	ND	0.046	0.0063	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:47	TG
Hexachlorobenzene [1]	ND	0.046	0.026	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:47	TG
Methoxychlor [1]	ND	0.46	0.0095	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:47	TG
Toxaphene [1]	ND	0.92	0.61	µg/L	1		SW-846 8081B	5/30/23	6/9/23 13:47	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	96.7		30-150				6/9/23 13:47			
Decachlorobiphenyl [2]	96.7		30-150				6/9/23 13:47			
Tetrachloro-m-xylene [1]	93.3		30-150				6/9/23 13:47			
Tetrachloro-m-xylene [2]	91.1		30-150				6/9/23 13:47			

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Sample Extraction Data

Prep Method:SW-846 3510C Analytical Method:SW-846 8081B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E3537-01 [518014-MW-23]	B341588	112	2.00	05/27/23

Prep Method:SW-846 3510C Analytical Method:SW-846 8081B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E3537-09 [518014-MW-22]	B341714	107	2.00	05/30/23
23E3537-11 [518014-K-3]	B341714	108	2.00	05/30/23
23E3537-12 [518014-MW-15S]	B341714	111	2.00	05/30/23
23E3537-13 [518014-MW-21]	B341714	110	2.00	05/30/23
23E3537-14 [518014-MW-24]	B341714	106	2.00	05/30/23
23E3537-15 [518014-MW-8S]	B341714	105	2.00	05/30/23
23E3537-16 [518014-DUP-1-GW]	B341714	110	2.00	05/30/23
23E3537-17 [518014-MW-20]	B341714	109	2.00	05/30/23

Prep Method:SW-846 3510C Analytical Method:SW-846 8081B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E3537-02 [518014-ASW]	B342802	110	2.00	05/27/23
23E3537-03 [518014-VEW-2]	B342802	112	2.00	05/27/23
23E3537-04 [518014-VEW-3]	B342802	108	2.00	05/27/23
23E3537-05 [518014-VEW-4]	B342802	104	2.00	05/27/23
23E3537-06 [518014-VEW-1]	B342802	111	2.00	05/27/23
23E3537-07 [518014-K-2]	B342802	107	2.00	05/27/23
23E3537-08 [518014-MW-18]	B342802	110	2.00	05/27/23
23E3537-10 [518014-MW-17]	B342802	111	2.00	05/27/23

Prep Method:SW-846 5030B Analytical Method:SW-846 8260D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E3537-01 [518014-MW-23]	B341914	5	5.00	06/01/23
23E3537-02 [518014-ASW]	B341914	0.5	5.00	06/01/23
23E3537-03 [518014-VEW-2]	B341914	5	5.00	06/01/23
23E3537-04 [518014-VEW-3]	B341914	5	5.00	06/01/23
23E3537-05 [518014-VEW-4]	B341914	5	5.00	06/01/23
23E3537-06 [518014-VEW-1]	B341914	5	5.00	06/01/23
23E3537-07 [518014-K-2]	B341914	5	5.00	06/01/23
23E3537-08 [518014-MW-18]	B341914	5	5.00	06/01/23
23E3537-09 [518014-MW-22]	B341914	5	5.00	06/01/23
23E3537-10 [518014-MW-17]	B341914	5	5.00	06/01/23
23E3537-11 [518014-K-3]	B341914	5	5.00	06/01/23
23E3537-12 [518014-MW-15S]	B341914	5	5.00	06/01/23
23E3537-13 [518014-MW-21]	B341914	5	5.00	06/01/23
23E3537-14 [518014-MW-24]	B341914	5	5.00	06/01/23

Prep Method:SW-846 5030B Analytical Method:SW-846 8260D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E3537-15 [518014-MW-8S]	B341916	5	5.00	06/01/23
23E3537-16 [518014-DUP-1-GW]	B341916	5	5.00	06/01/23
23E3537-17 [518014-MW-20]	B341916	5	5.00	06/01/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method:SW-846 3510C **Analytical Method:**SW-846 8270E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E3537-01 [518014-MW-23]	B341470	1040	1.00	05/26/23
23E3537-02 [518014-ASW]	B341470	1040	1.00	05/26/23
23E3537-03 [518014-VEW-2]	B341470	1030	1.00	05/26/23
23E3537-04 [518014-VEW-3]	B341470	1040	1.00	05/26/23
23E3537-05 [518014-VEW-4]	B341470	1040	1.00	05/26/23
23E3537-06 [518014-VEW-1]	B341470	1030	1.00	05/26/23
23E3537-07 [518014-K-2]	B341470	1040	1.00	05/26/23
23E3537-08 [518014-MW-18]	B341470	1040	1.00	05/26/23
23E3537-09 [518014-MW-22]	B341470	1040	1.00	05/26/23
23E3537-10 [518014-MW-17]	B341470	1040	1.00	05/26/23
23E3537-11 [518014-K-3]	B341470	1040	1.00	05/26/23
23E3537-16 [518014-DUP-1-GW]	B341470	1030	1.00	05/26/23

Prep Method:SW-846 3510C **Analytical Method:**SW-846 8270E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E3537-12 [518014-MW-15S]	B341621	1020	1.00	05/29/23
23E3537-13 [518014-MW-21]	B341621	1030	1.00	05/29/23

Prep Method:SW-846 3510C **Analytical Method:**SW-846 8270E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E3537-01 [518014-MW-23]	B341710	110	1.00	05/30/23
23E3537-02 [518014-ASW]	B341710	109	1.00	05/30/23
23E3537-03 [518014-VEW-2]	B341710	111	1.00	05/30/23
23E3537-04 [518014-VEW-3]	B341710	107	1.00	05/30/23
23E3537-05 [518014-VEW-4]	B341710	106	1.00	05/30/23
23E3537-06 [518014-VEW-1]	B341710	109	1.00	05/30/23
23E3537-07 [518014-K-2]	B341710	108	1.00	05/30/23
23E3537-08 [518014-MW-18]	B341710	108	1.00	05/30/23
23E3537-09 [518014-MW-22]	B341710	105	1.00	05/30/23
23E3537-10 [518014-MW-17]	B341710	110	1.00	05/30/23
23E3537-11 [518014-K-3]	B341710	107	1.00	05/30/23
23E3537-12 [518014-MW-15S]	B341710	110	1.00	05/30/23
23E3537-13 [518014-MW-21]	B341710	105	1.00	05/30/23
23E3537-14 [518014-MW-24]	B341710	106	1.00	05/30/23
23E3537-15 [518014-MW-8S]	B341710	110	1.00	05/30/23
23E3537-16 [518014-DUP-1-GW]	B341710	109	1.00	05/30/23
23E3537-17 [518014-MW-20]	B341710	109	1.00	05/30/23

Prep Method:SW-846 3510C **Analytical Method:**SW-846 8270E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E3537-14 [518014-MW-24]	B341711	1030	1.00	05/30/23
23E3537-15 [518014-MW-8S]	B341711	1030	1.00	05/30/23
23E3537-17 [518014-MW-20]	B341711	1000	1.00	05/30/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341914 - SW-846 5030B										
Blank (B341914-BLK1)				Prepared: 06/01/23 Analyzed: 06/02/23						
Acetone	ND	50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							V-05
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							V-05
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							V-05
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341914 - SW-846 5030B										
Blank (B341914-BLK1)										
Prepared: 06/01/23 Analyzed: 06/02/23										
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	25.1		µg/L	25.0		100	70-130			
Surrogate: Toluene-d8	24.1		µg/L	25.0		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	22.7		µg/L	25.0		90.6	70-130			
LCS (B341914-BS1)										
Prepared: 06/01/23 Analyzed: 06/02/23										
Acetone	98.2	50	µg/L	100		98.2	70-160			†
Benzene	11.3	1.0	µg/L	10.0		113	70-130			
Bromochloromethane	11.6	1.0	µg/L	10.0		116	70-130			
Bromodichloromethane	9.76	0.50	µg/L	10.0		97.6	70-130			
Bromoform	7.69	1.0	µg/L	10.0		76.9	70-130			V-05
Bromomethane	12.6	2.0	µg/L	10.0		126	40-160			V-20 †
2-Butanone (MEK)	110	20	µg/L	100		110	40-160			†
Carbon Disulfide	102	5.0	µg/L	100		102	70-130			
Carbon Tetrachloride	9.34	5.0	µg/L	10.0		93.4	70-130			
Chlorobenzene	10.7	1.0	µg/L	10.0		107	70-130			
Chlorodibromomethane	9.07	0.50	µg/L	10.0		90.7	70-130			
Chloroethane	9.88	2.0	µg/L	10.0		98.8	70-130			
Chloroform	10.3	2.0	µg/L	10.0		103	70-130			
Chloromethane	12.0	2.0	µg/L	10.0		120	40-160			V-20 †
Cyclohexane	10.6	5.0	µg/L	10.0		106	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.62	5.0	µg/L	10.0		86.2	70-130			V-05
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0		104	70-130			
1,2-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
1,3-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
1,4-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
Dichlorodifluoromethane (Freon 12)	11.5	2.0	µg/L	10.0		115	40-160			†
1,1-Dichloroethane	10.5	1.0	µg/L	10.0		105	70-130			
1,2-Dichloroethane	10.3	1.0	µg/L	10.0		103	70-130			
1,1-Dichloroethylene	9.67	1.0	µg/L	10.0		96.7	70-130			
cis-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130			
trans-1,2-Dichloroethylene	9.88	1.0	µg/L	10.0		98.8	70-130			
1,2-Dichloropropane	10.6	1.0	µg/L	10.0		106	70-130			
cis-1,3-Dichloropropene	9.82	0.50	µg/L	10.0		98.2	70-130			
trans-1,3-Dichloropropene	9.35	0.50	µg/L	10.0		93.5	70-130			
1,4-Dioxane	95.3	50	µg/L	100		95.3	40-130			†
Ethylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
2-Hexanone (MBK)	96.2	10	µg/L	100		96.2	70-160			†
Isopropylbenzene (Cumene)	9.95	1.0	µg/L	10.0		99.5	70-130			
Methyl Acetate	8.06	1.0	µg/L	10.0		80.6	70-130			V-05
Methyl tert-Butyl Ether (MTBE)	9.41	1.0	µg/L	10.0		94.1	70-130			
Methyl Cyclohexane	11.0	1.0	µg/L	10.0		110	70-130			
Methylene Chloride	10.3	5.0	µg/L	10.0		103	70-130			
4-Methyl-2-pentanone (MIBK)	94.2	10	µg/L	100		94.2	70-160			†
Styrene	10.5	1.0	µg/L	10.0		105	70-130			
1,1,2,2-Tetrachloroethane	9.78	0.50	µg/L	10.0		97.8	70-130			
Tetrachloroethylene	10.5	1.0	µg/L	10.0		105	70-130			
Toluene	10.4	1.0	µg/L	10.0		104	70-130			
1,2,3-Trichlorobenzene	10.2	5.0	µg/L	10.0		102	70-130			
1,2,4-Trichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130			
1,1,1-Trichloroethane	9.71	1.0	µg/L	10.0		97.1	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341914 - SW-846 5030B										
LCS (B341914-BS1)										
Prepared: 06/01/23 Analyzed: 06/02/23										
1,1,2-Trichloroethane	10.5	1.0	µg/L	10.0		105	70-130			
Trichloroethylene	10.3	1.0	µg/L	10.0		103	70-130			
Trichlorofluoromethane (Freon 11)	9.82	2.0	µg/L	10.0		98.2	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.5	1.0	µg/L	10.0		105	70-130			
Vinyl Chloride	11.4	2.0	µg/L	10.0		114	40-160			†
m+p Xylene	20.8	2.0	µg/L	20.0		104	70-130			
o-Xylene	10.1	1.0	µg/L	10.0		101	70-130			
Xylenes (total)	30.9	1.0	µg/L	30.0		103	0-200			
Surrogate: 1,2-Dichloroethane-d4	24.4		µg/L	25.0		97.6	70-130			
Surrogate: Toluene-d8	25.3		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	23.7		µg/L	25.0		94.7	70-130			
LCS Dup (B341914-BSD1)										
Prepared: 06/01/23 Analyzed: 06/02/23										
Acetone	94.8	50	µg/L	100		94.8	70-160	3.50	25	†
Benzene	11.1	1.0	µg/L	10.0		111	70-130	1.79	25	
Bromochloromethane	11.0	1.0	µg/L	10.0		110	70-130	5.20	25	
Bromodichloromethane	9.33	0.50	µg/L	10.0		93.3	70-130	4.50	25	
Bromoform	7.57	1.0	µg/L	10.0		75.7	70-130	1.57	25	V-05
Bromomethane	12.4	2.0	µg/L	10.0		124	40-160	1.76	25	V-20 †
2-Butanone (MEK)	104	20	µg/L	100		104	40-160	5.80	25	†
Carbon Disulfide	99.9	5.0	µg/L	100		99.9	70-130	1.96	25	
Carbon Tetrachloride	9.27	5.0	µg/L	10.0		92.7	70-130	0.752	25	
Chlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	0.562	25	
Chlorodibromomethane	8.66	0.50	µg/L	10.0		86.6	70-130	4.62	25	
Chloroethane	9.97	2.0	µg/L	10.0		99.7	70-130	0.907	25	
Chloroform	10.0	2.0	µg/L	10.0		100	70-130	2.55	25	
Chloromethane	11.6	2.0	µg/L	10.0		116	40-160	4.24	25	V-20 †
Cyclohexane	10.5	5.0	µg/L	10.0		105	70-130	0.950	25	
1,2-Dibromo-3-chloropropane (DBCP)	8.17	5.0	µg/L	10.0		81.7	70-130	5.36	25	V-05
1,2-Dibromoethane (EDB)	9.57	0.50	µg/L	10.0		95.7	70-130	8.02	25	
1,2-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	0.0943	25	
1,3-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	0.377	25	
1,4-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	2.10	25	
Dichlorodifluoromethane (Freon 12)	11.3	2.0	µg/L	10.0		113	40-160	1.49	25	†
1,1-Dichloroethane	10.3	1.0	µg/L	10.0		103	70-130	2.40	25	
1,2-Dichloroethane	9.84	1.0	µg/L	10.0		98.4	70-130	4.18	25	
1,1-Dichloroethylene	9.70	1.0	µg/L	10.0		97.0	70-130	0.310	25	
cis-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130	2.43	25	
trans-1,2-Dichloroethylene	9.68	1.0	µg/L	10.0		96.8	70-130	2.04	25	
1,2-Dichloropropane	10.3	1.0	µg/L	10.0		103	70-130	2.49	25	
cis-1,3-Dichloropropene	9.39	0.50	µg/L	10.0		93.9	70-130	4.48	25	
trans-1,3-Dichloropropene	8.61	0.50	µg/L	10.0		86.1	70-130	8.24	25	
1,4-Dioxane	88.9	50	µg/L	100		88.9	40-130	6.96	50	† ‡
Ethylbenzene	10.2	1.0	µg/L	10.0		102	70-130	1.64	25	
2-Hexanone (MBK)	86.9	10	µg/L	100		86.9	70-160	10.2	25	†
Isopropylbenzene (Cumene)	9.96	1.0	µg/L	10.0		99.6	70-130	0.100	25	
Methyl Acetate	7.73	1.0	µg/L	10.0		77.3	70-130	4.18	25	V-05
Methyl tert-Butyl Ether (MTBE)	9.06	1.0	µg/L	10.0		90.6	70-130	3.79	25	
Methyl Cyclohexane	11.2	1.0	µg/L	10.0		112	70-130	2.16	25	
Methylene Chloride	9.89	5.0	µg/L	10.0		98.9	70-130	3.77	25	
4-Methyl-2-pentanone (MIBK)	86.8	10	µg/L	100		86.8	70-160	8.19	25	†
Styrene	10.3	1.0	µg/L	10.0		103	70-130	2.21	25	

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B341914 - SW-846 5030B
LCS Dup (B341914-BSD1)

Prepared: 06/01/23 Analyzed: 06/02/23

1,1,2,2-Tetrachloroethane	9.68	0.50	µg/L	10.0		96.8	70-130	1.03	25	
Tetrachloroethylene	10.3	1.0	µg/L	10.0		103	70-130	2.60	25	
Toluene	10.1	1.0	µg/L	10.0		101	70-130	3.22	25	
1,2,3-Trichlorobenzene	10.4	5.0	µg/L	10.0		104	70-130	2.05	25	
1,2,4-Trichlorobenzene	9.85	1.0	µg/L	10.0		98.5	70-130	1.61	25	
1,1,1-Trichloroethane	9.60	1.0	µg/L	10.0		96.0	70-130	1.14	25	
1,1,2-Trichloroethane	9.95	1.0	µg/L	10.0		99.5	70-130	5.28	25	
Trichloroethylene	10.1	1.0	µg/L	10.0		101	70-130	2.45	25	
Trichlorofluoromethane (Freon 11)	9.79	2.0	µg/L	10.0		97.9	70-130	0.306	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.3	1.0	µg/L	10.0		103	70-130	2.12	25	
Vinyl Chloride	11.0	2.0	µg/L	10.0		110	40-160	3.30	25	†
m+p Xylene	20.9	2.0	µg/L	20.0		104	70-130	0.240	25	
o-Xylene	9.75	1.0	µg/L	10.0		97.5	70-130	3.23	25	
Xylenes (total)	30.6	1.0	µg/L	30.0		102	0-200	0.878		
Surrogate: 1,2-Dichloroethane-d4	24.9		µg/L	25.0		99.6	70-130			
Surrogate: Toluene-d8	24.3		µg/L	25.0		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	23.6		µg/L	25.0		94.3	70-130			

Matrix Spike (B341914-MS1)
Source: 23E3537-09

Prepared: 06/01/23 Analyzed: 06/02/23

Acetone	77.1	50	µg/L	100	2.46	74.7	70-130			
Benzene	9.65	1.0	µg/L	10.0	ND	96.5	70-130			
Bromochloromethane	10.0	1.0	µg/L	10.0	ND	100	70-130			
Bromodichloromethane	8.22	0.50	µg/L	10.0	ND	82.2	70-130			
Bromoform	6.22	1.0	µg/L	10.0	ND	62.2 *	70-130			MS-07A, V-05
Bromomethane	10.2	2.0	µg/L	10.0	ND	102	70-130			V-20
2-Butanone (MEK)	90.7	20	µg/L	100	ND	90.7	70-130			
Carbon Disulfide	90.4	5.0	µg/L	100	ND	90.4	70-130			
Carbon Tetrachloride	8.43	5.0	µg/L	10.0	ND	84.3	70-130			
Chlorobenzene	8.94	1.0	µg/L	10.0	ND	89.4	70-130			
Chlorodibromomethane	7.54	0.50	µg/L	10.0	ND	75.4	70-130			
Chloroethane	8.97	2.0	µg/L	10.0	ND	89.7	70-130			
Chloroform	9.03	2.0	µg/L	10.0	ND	90.3	70-130			
Chloromethane	11.8	2.0	µg/L	10.0	ND	118	70-130			V-20
Cyclohexane	9.59	5.0	µg/L	10.0	ND	95.9	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	7.07	5.0	µg/L	10.0	ND	70.7	70-130			V-05
1,2-Dibromoethane (EDB)	8.71	0.50	µg/L	10.0	ND	87.1	70-130			
1,2-Dichlorobenzene	8.97	1.0	µg/L	10.0	ND	89.7	70-130			
1,3-Dichlorobenzene	8.99	1.0	µg/L	10.0	ND	89.9	70-130			
1,4-Dichlorobenzene	8.61	1.0	µg/L	10.0	ND	86.1	70-130			
Dichlorodifluoromethane (Freon 12)	10.5	2.0	µg/L	10.0	ND	105	70-130			
1,1-Dichloroethane	9.20	1.0	µg/L	10.0	ND	92.0	70-130			
1,2-Dichloroethane	8.34	1.0	µg/L	10.0	ND	83.4	70-130			
1,1-Dichloroethylene	8.88	1.0	µg/L	10.0	ND	88.8	70-130			
cis-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0	ND	101	70-130			
trans-1,2-Dichloroethylene	8.71	1.0	µg/L	10.0	ND	87.1	70-130			
1,2-Dichloropropane	8.90	1.0	µg/L	10.0	ND	89.0	70-130			
cis-1,3-Dichloropropene	8.02	0.50	µg/L	10.0	ND	80.2	70-130			
trans-1,3-Dichloropropene	7.48	0.50	µg/L	10.0	ND	74.8	70-130			
1,4-Dioxane	77.2	50	µg/L	100	ND	77.2	70-130			
Ethylbenzene	9.08	1.0	µg/L	10.0	ND	90.8	70-130			
2-Hexanone (MBK)	79.0	10	µg/L	100	ND	79.0	70-130			
Isopropylbenzene (Cumene)	8.87	1.0	µg/L	10.0	ND	88.7	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B341914 - SW-846 5030B

Matrix Spike (B341914-MS1)		Source: 23E3537-09			Prepared: 06/01/23 Analyzed: 06/02/23					
Methyl Acetate	5.28	1.0	µg/L	10.0	ND	52.8	*	70-130		MS-07A, V-05
Methyl tert-Butyl Ether (MTBE)	8.08	1.0	µg/L	10.0	3.70	43.8	*	70-130		MS-07A
Methyl Cyclohexane	9.86	1.0	µg/L	10.0	ND	98.6		70-130		
Methylene Chloride	8.82	5.0	µg/L	10.0	ND	88.2		70-130		
4-Methyl-2-pentanone (MIBK)	80.0	10	µg/L	100	ND	80.0		70-130		
Styrene	8.66	1.0	µg/L	10.0	ND	86.6		70-130		
1,1,2,2-Tetrachloroethane	8.17	0.50	µg/L	10.0	ND	81.7		70-130		
Tetrachloroethylene	11.9	1.0	µg/L	10.0	2.67	92.1		70-130		
Toluene	9.31	1.0	µg/L	10.0	ND	93.1		70-130		
1,2,3-Trichlorobenzene	8.55	5.0	µg/L	10.0	ND	85.5		70-130		
1,2,4-Trichlorobenzene	8.39	1.0	µg/L	10.0	ND	83.9		70-130		
1,1,1-Trichloroethane	8.90	1.0	µg/L	10.0	ND	89.0		70-130		
1,1,2-Trichloroethane	8.89	1.0	µg/L	10.0	ND	88.9		70-130		
Trichloroethylene	9.52	1.0	µg/L	10.0	0.460	90.6		70-130		
Trichlorofluoromethane (Freon 11)	9.11	2.0	µg/L	10.0	ND	91.1		70-130		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.30	1.0	µg/L	10.0	ND	93.0		70-130		
Vinyl Chloride	10.5	2.0	µg/L	10.0	ND	105		70-130		
m+p Xylene	18.2	2.0	µg/L	20.0	ND	90.8		70-130		
o-Xylene	8.74	1.0	µg/L	10.0	ND	87.4		70-130		
Xylenes (total)	26.9	1.0	µg/L	30.0	ND	89.7		0-200		
Surrogate: 1,2-Dichloroethane-d4	25.3		µg/L	25.0		101		70-130		
Surrogate: Toluene-d8	25.5		µg/L	25.0		102		70-130		
Surrogate: 4-Bromofluorobenzene	23.7		µg/L	25.0		94.8		70-130		

Matrix Spike Dup (B341914-MSD1)		Source: 23E3537-09			Prepared: 06/01/23 Analyzed: 06/02/23					
Acetone	73.0	50	µg/L	100	2.46	70.6		70-130	5.47	30
Benzene	9.80	1.0	µg/L	10.0	ND	98.0		70-130	1.54	30
Bromochloromethane	10.0	1.0	µg/L	10.0	ND	100		70-130	0.0997	30
Bromodichloromethane	8.60	0.50	µg/L	10.0	ND	86.0		70-130	4.52	30
Bromoform	6.48	1.0	µg/L	10.0	ND	64.8	*	70-130	4.09	30
Bromomethane	10.9	2.0	µg/L	10.0	ND	109		70-130	6.56	30
2-Butanone (MEK)	86.4	20	µg/L	100	ND	86.4		70-130	4.90	30
Carbon Disulfide	93.3	5.0	µg/L	100	ND	93.3		70-130	3.13	30
Carbon Tetrachloride	8.71	5.0	µg/L	10.0	ND	87.1		70-130	3.27	30
Chlorobenzene	9.32	1.0	µg/L	10.0	ND	93.2		70-130	4.16	30
Chlorodibromomethane	7.82	0.50	µg/L	10.0	ND	78.2		70-130	3.65	30
Chloroethane	9.35	2.0	µg/L	10.0	ND	93.5		70-130	4.15	30
Chloroform	9.18	2.0	µg/L	10.0	ND	91.8		70-130	1.65	30
Chloromethane	13.4	2.0	µg/L	10.0	ND	134	*	70-130	13.1	30
Cyclohexane	9.97	5.0	µg/L	10.0	ND	99.7		70-130	3.89	30
1,2-Dibromo-3-chloropropane (DBCP)	7.03	5.0	µg/L	10.0	ND	70.3		70-130	0.567	30
1,2-Dibromoethane (EDB)	8.63	0.50	µg/L	10.0	ND	86.3		70-130	0.923	30
1,2-Dichlorobenzene	9.19	1.0	µg/L	10.0	ND	91.9		70-130	2.42	30
1,3-Dichlorobenzene	9.10	1.0	µg/L	10.0	ND	91.0		70-130	1.22	30
1,4-Dichlorobenzene	8.79	1.0	µg/L	10.0	ND	87.9		70-130	2.07	30
Dichlorodifluoromethane (Freon 12)	11.1	2.0	µg/L	10.0	ND	111		70-130	5.18	30
1,1-Dichloroethane	9.46	1.0	µg/L	10.0	ND	94.6		70-130	2.79	30
1,2-Dichloroethane	8.57	1.0	µg/L	10.0	ND	85.7		70-130	2.72	30
1,1-Dichloroethylene	9.21	1.0	µg/L	10.0	ND	92.1		70-130	3.65	30
cis-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0	ND	102		70-130	1.18	30
trans-1,2-Dichloroethylene	8.91	1.0	µg/L	10.0	ND	89.1		70-130	2.27	30
1,2-Dichloropropane	9.54	1.0	µg/L	10.0	ND	95.4		70-130	6.94	30

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B341914 - SW-846 5030B

Matrix Spike Dup (B341914-MSD1)		Source: 23E3537-09		Prepared: 06/01/23 Analyzed: 06/02/23						
cis-1,3-Dichloropropene	8.07	0.50	µg/L	10.0	ND	80.7	70-130	0.621	30	
trans-1,3-Dichloropropene	7.92	0.50	µg/L	10.0	ND	79.2	70-130	5.71	30	
1,4-Dioxane	67.3	50	µg/L	100	ND	67.3	* 70-130	13.7	30	MS-24
Ethylbenzene	9.45	1.0	µg/L	10.0	ND	94.5	70-130	3.99	30	
2-Hexanone (MBK)	76.0	10	µg/L	100	ND	76.0	70-130	3.82	30	
Isopropylbenzene (Cumene)	9.16	1.0	µg/L	10.0	ND	91.6	70-130	3.22	30	
Methyl Acetate	5.55	1.0	µg/L	10.0	ND	55.5	* 70-130	4.99	30	MS-07A, V-05
Methyl tert-Butyl Ether (MTBE)	8.10	1.0	µg/L	10.0	3.70	44.0	* 70-130	0.247	30	MS-07A
Methyl Cyclohexane	10.2	1.0	µg/L	10.0	ND	102	70-130	3.10	30	
Methylene Chloride	9.07	5.0	µg/L	10.0	ND	90.7	70-130	2.79	30	
4-Methyl-2-pentanone (MIBK)	77.5	10	µg/L	100	ND	77.5	70-130	3.10	30	
Styrene	9.00	1.0	µg/L	10.0	ND	90.0	70-130	3.85	30	
1,1,2,2-Tetrachloroethane	8.20	0.50	µg/L	10.0	ND	82.0	70-130	0.367	30	
Tetrachloroethylene	12.1	1.0	µg/L	10.0	2.67	93.9	70-130	1.50	30	
Toluene	9.45	1.0	µg/L	10.0	ND	94.5	70-130	1.49	30	
1,2,3-Trichlorobenzene	9.05	5.0	µg/L	10.0	ND	90.5	70-130	5.68	30	
1,2,4-Trichlorobenzene	8.68	1.0	µg/L	10.0	ND	86.8	70-130	3.40	30	
1,1,1-Trichloroethane	9.08	1.0	µg/L	10.0	ND	90.8	70-130	2.00	30	
1,1,2-Trichloroethane	8.79	1.0	µg/L	10.0	ND	87.9	70-130	1.13	30	
Trichloroethylene	9.55	1.0	µg/L	10.0	0.460	90.9	70-130	0.315	30	
Trichlorofluoromethane (Freon 11)	9.47	2.0	µg/L	10.0	ND	94.7	70-130	3.88	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.66	1.0	µg/L	10.0	ND	96.6	70-130	3.80	30	
Vinyl Chloride	10.8	2.0	µg/L	10.0	ND	108	70-130	3.20	30	
m+p Xylene	18.7	2.0	µg/L	20.0	ND	93.5	70-130	2.87	20	
o-Xylene	9.14	1.0	µg/L	10.0	ND	91.4	70-130	4.47	30	
Xylenes (total)	27.8	1.0	µg/L	30.0	ND	92.8	0-200	3.40		
Surrogate: 1,2-Dichloroethane-d4	25.3		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	25.8		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	24.3		µg/L	25.0		97.2	70-130			

Batch B341916 - SW-846 5030B

Blank (B341916-BLK1)		Prepared: 06/01/23 Analyzed: 06/02/23								
Acetone	ND	50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							V-05
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							V-05
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B341916 - SW-846 5030B
Blank (B341916-BLK1)

Prepared: 06/01/23 Analyzed: 06/02/23

1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	25.0		µg/L	25.0		99.8	70-130			
Surrogate: Toluene-d8	24.4		µg/L	25.0		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	22.8		µg/L	25.0		91.0	70-130			

LCS (B341916-BS1)

Prepared: 06/01/23 Analyzed: 06/02/23

Acetone	94.1	50	µg/L	100		94.1	70-160			†
Benzene	10.9	1.0	µg/L	10.0		109	70-130			
Bromochloromethane	11.1	1.0	µg/L	10.0		111	70-130			
Bromodichloromethane	10.1	0.50	µg/L	10.0		101	70-130			
Bromoform	7.36	1.0	µg/L	10.0		73.6	70-130		V-05	
Bromomethane	12.2	2.0	µg/L	10.0		122	40-160			†
2-Butanone (MEK)	104	20	µg/L	100		104	40-160			†
Carbon Disulfide	98.8	5.0	µg/L	100		98.8	70-130			
Carbon Tetrachloride	9.31	5.0	µg/L	10.0		93.1	70-130			
Chlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
Chlorodibromomethane	9.12	0.50	µg/L	10.0		91.2	70-130			
Chloroethane	10.1	2.0	µg/L	10.0		101	70-130			
Chloroform	10.5	2.0	µg/L	10.0		105	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341916 - SW-846 5030B										
LCS (B341916-BS1)										
Prepared: 06/01/23 Analyzed: 06/02/23										
Chloromethane	11.6	2.0	µg/L	10.0		116	40-160			†
Cyclohexane	10.2	5.0	µg/L	10.0		102	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	7.83	5.0	µg/L	10.0		78.3	70-130			V-05
1,2-Dibromoethane (EDB)	10.1	0.50	µg/L	10.0		101	70-130			
1,2-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
1,3-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130			
1,4-Dichlorobenzene	9.79	1.0	µg/L	10.0		97.9	70-130			
Dichlorodifluoromethane (Freon 12)	9.94	2.0	µg/L	10.0		99.4	40-160			†
1,1-Dichloroethane	10.4	1.0	µg/L	10.0		104	70-130			
1,2-Dichloroethane	10.0	1.0	µg/L	10.0		100	70-130			
1,1-Dichloroethylene	9.93	1.0	µg/L	10.0		99.3	70-130			
cis-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130			
trans-1,2-Dichloroethylene	10.0	1.0	µg/L	10.0		100	70-130			
1,2-Dichloropropane	10.5	1.0	µg/L	10.0		105	70-130			
cis-1,3-Dichloropropene	9.75	0.50	µg/L	10.0		97.5	70-130			
trans-1,3-Dichloropropene	9.23	0.50	µg/L	10.0		92.3	70-130			
1,4-Dioxane	82.8	50	µg/L	100		82.8	40-130			†
Ethylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
2-Hexanone (MBK)	92.0	10	µg/L	100		92.0	70-160			†
Isopropylbenzene (Cumene)	9.92	1.0	µg/L	10.0		99.2	70-130			
Methyl Acetate	8.36	1.0	µg/L	10.0		83.6	70-130			
Methyl tert-Butyl Ether (MTBE)	9.44	1.0	µg/L	10.0		94.4	70-130			
Methyl Cyclohexane	10.9	1.0	µg/L	10.0		109	70-130			
Methylene Chloride	10.3	5.0	µg/L	10.0		103	70-130			
4-Methyl-2-pentanone (MIBK)	89.2	10	µg/L	100		89.2	70-160			†
Styrene	10.4	1.0	µg/L	10.0		104	70-130			
1,1,1,2-Tetrachloroethane	9.20	0.50	µg/L	10.0		92.0	70-130			
Tetrachloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
Toluene	10.5	1.0	µg/L	10.0		105	70-130			
1,2,3-Trichlorobenzene	9.58	5.0	µg/L	10.0		95.8	70-130			
1,2,4-Trichlorobenzene	9.54	1.0	µg/L	10.0		95.4	70-130			
1,1,1-Trichloroethane	9.70	1.0	µg/L	10.0		97.0	70-130			
1,1,2-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130			
Trichloroethylene	10.4	1.0	µg/L	10.0		104	70-130			
Trichlorofluoromethane (Freon 11)	9.66	2.0	µg/L	10.0		96.6	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.1	1.0	µg/L	10.0		101	70-130			
Vinyl Chloride	10.9	2.0	µg/L	10.0		109	40-160			†
m+p Xylene	20.7	2.0	µg/L	20.0		104	70-130			
o-Xylene	10.0	1.0	µg/L	10.0		100	70-130			
Xylenes (total)	30.8	1.0	µg/L	30.0		103	0-200			
Surrogate: 1,2-Dichloroethane-d4	24.1		µg/L	25.0		96.4	70-130			
Surrogate: Toluene-d8	25.8		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	24.1		µg/L	25.0		96.4	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341916 - SW-846 5030B										
LCS Dup (B341916-BSD1)										
Prepared: 06/01/23 Analyzed: 06/02/23										
Acetone	99.1	50	µg/L	100		99.1	70-160	5.21	25	†
Benzene	11.0	1.0	µg/L	10.0		110	70-130	0.823	25	
Bromochloromethane	11.5	1.0	µg/L	10.0		115	70-130	3.72	25	
Bromodichloromethane	10.0	0.50	µg/L	10.0		100	70-130	0.793	25	
Bromoform	7.61	1.0	µg/L	10.0		76.1	70-130	3.34	25	V-05
Bromomethane	12.1	2.0	µg/L	10.0		121	40-160	0.493	25	†
2-Butanone (MEK)	108	20	µg/L	100		108	40-160	3.68	25	†
Carbon Disulfide	100	5.0	µg/L	100		100	70-130	1.68	25	
Carbon Tetrachloride	9.60	5.0	µg/L	10.0		96.0	70-130	3.07	25	
Chlorobenzene	10.8	1.0	µg/L	10.0		108	70-130	1.87	25	
Chlorodibromomethane	9.29	0.50	µg/L	10.0		92.9	70-130	1.85	25	
Chloroethane	10.2	2.0	µg/L	10.0		102	70-130	0.592	25	
Chloroform	10.5	2.0	µg/L	10.0		105	70-130	0.286	25	
Chloromethane	11.1	2.0	µg/L	10.0		111	40-160	4.59	25	†
Cyclohexane	10.3	5.0	µg/L	10.0		103	70-130	0.875	25	
1,2-Dibromo-3-chloropropane (DBCP)	8.08	5.0	µg/L	10.0		80.8	70-130	3.14	25	V-05
1,2-Dibromoethane (EDB)	10.3	0.50	µg/L	10.0		103	70-130	1.86	25	
1,2-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	3.08	25	
1,3-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130	0.286	25	
1,4-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130	2.92	25	
Dichlorodifluoromethane (Freon 12)	10.6	2.0	µg/L	10.0		106	40-160	6.33	25	†
1,1-Dichloroethane	10.6	1.0	µg/L	10.0		106	70-130	2.28	25	
1,2-Dichloroethane	10.1	1.0	µg/L	10.0		101	70-130	0.993	25	
1,1-Dichloroethylene	9.78	1.0	µg/L	10.0		97.8	70-130	1.52	25	
cis-1,2-Dichloroethylene	10.3	1.0	µg/L	10.0		103	70-130	0.678	25	
trans-1,2-Dichloroethylene	9.89	1.0	µg/L	10.0		98.9	70-130	1.51	25	
1,2-Dichloropropane	10.2	1.0	µg/L	10.0		102	70-130	2.89	25	
cis-1,3-Dichloropropene	9.69	0.50	µg/L	10.0		96.9	70-130	0.617	25	
trans-1,3-Dichloropropene	9.04	0.50	µg/L	10.0		90.4	70-130	2.08	25	
1,4-Dioxane	84.7	50	µg/L	100		84.7	40-130	2.22	50	† ‡
Ethylbenzene	10.6	1.0	µg/L	10.0		106	70-130	1.52	25	
2-Hexanone (MBK)	94.3	10	µg/L	100		94.3	70-160	2.47	25	†
Isopropylbenzene (Cumene)	10.0	1.0	µg/L	10.0		100	70-130	1.30	25	
Methyl Acetate	8.62	1.0	µg/L	10.0		86.2	70-130	3.06	25	
Methyl tert-Butyl Ether (MTBE)	9.47	1.0	µg/L	10.0		94.7	70-130	0.317	25	
Methyl Cyclohexane	10.6	1.0	µg/L	10.0		106	70-130	2.60	25	
Methylene Chloride	10.2	5.0	µg/L	10.0		102	70-130	0.780	25	
4-Methyl-2-pentanone (MIBK)	92.3	10	µg/L	100		92.3	70-160	3.45	25	†
Styrene	10.7	1.0	µg/L	10.0		107	70-130	2.84	25	
1,1,2,2-Tetrachloroethane	9.44	0.50	µg/L	10.0		94.4	70-130	2.58	25	
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106	70-130	4.41	25	
Toluene	10.7	1.0	µg/L	10.0		107	70-130	1.32	25	
1,2,3-Trichlorobenzene	10.2	5.0	µg/L	10.0		102	70-130	6.27	25	
1,2,4-Trichlorobenzene	9.80	1.0	µg/L	10.0		98.0	70-130	2.69	25	
1,1,1-Trichloroethane	9.91	1.0	µg/L	10.0		99.1	70-130	2.14	25	
1,1,2-Trichloroethane	10.7	1.0	µg/L	10.0		107	70-130	2.95	25	
Trichloroethylene	10.8	1.0	µg/L	10.0		108	70-130	3.50	25	
Trichlorofluoromethane (Freon 11)	9.91	2.0	µg/L	10.0		99.1	70-130	2.55	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.3	1.0	µg/L	10.0		103	70-130	2.06	25	
Vinyl Chloride	11.2	2.0	µg/L	10.0		112	40-160	2.35	25	†
m+p Xylene	21.1	2.0	µg/L	20.0		106	70-130	1.96	25	

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B341916 - SW-846 5030B
LCS Dup (B341916-BSD1)

Prepared: 06/01/23 Analyzed: 06/02/23

o-Xylene	10.1	1.0	µg/L	10.0		101	70-130	0.199	25	
Xylenes (total)	31.2	1.0	µg/L	30.0		104	0-200	1.39		
Surrogate: 1,2-Dichloroethane-d4	24.2		µg/L	25.0		96.6	70-130			
Surrogate: Toluene-d8	25.5		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	23.7		µg/L	25.0		94.8	70-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B341710 - SW-846 3510C
Blank (B341710-BLK1)

Prepared: 05/30/23 Analyzed: 06/06/23

Atrazine	ND	20	µg/L							
Benzaldehyde	ND	10	µg/L							
Biphenyl	ND	20	µg/L							
Caprolactam	ND	10	µg/L							L-04
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							V-05
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	20	µg/L							
2,4-Dinitrophenol	ND	20	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							V-05
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							L-04
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	10	µg/L							

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341710 - SW-846 3510C										
Blank (B341710-BLK1)										
Prepared: 05/30/23 Analyzed: 06/06/23										
3-Nitroaniline	ND	10	µg/L							V-20
4-Nitroaniline	ND	10	µg/L							V-20
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	20	µg/L							
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	236		µg/L	400		58.9	15-110			
Surrogate: Phenol-d6	156		µg/L	400		39.0	15-110			
Surrogate: Nitrobenzene-d5	161		µg/L	200		80.7	30-130			
Surrogate: 2-Fluorobiphenyl	142		µg/L	200		70.9	30-130			
Surrogate: 2,4,6-Tribromophenol	361		µg/L	400		90.3	15-110			
Surrogate: p-Terphenyl-d14	171		µg/L	200		85.3	30-130			
LCS (B341710-BS1)										
Prepared: 05/30/23 Analyzed: 06/06/23										
Atrazine	102	20	µg/L	100		102	40-140			
Benzaldehyde	74.2	10	µg/L	100		74.2	40-140			
Biphenyl	72.5	20	µg/L	100		72.5	40-140			
Caprolactam	29.7	10	µg/L	100		29.7	* 40-140			L-04
Acenaphthene	76.4	5.0	µg/L	100		76.4	40-140			
Acenaphthylene	80.4	5.0	µg/L	100		80.4	40-140			
Acetophenone	81.5	10	µg/L	100		81.5	40-140			
Anthracene	81.5	5.0	µg/L	100		81.5	40-140			
Benzo(a)anthracene	81.3	5.0	µg/L	100		81.3	40-140			
Benzo(a)pyrene	75.6	5.0	µg/L	100		75.6	40-140			
Benzo(b)fluoranthene	79.9	5.0	µg/L	100		79.9	40-140			
Benzo(g,h,i)perylene	92.2	5.0	µg/L	100		92.2	40-140			
Benzo(k)fluoranthene	86.4	5.0	µg/L	100		86.4	40-140			
Bis(2-chloroethoxy)methane	78.3	10	µg/L	100		78.3	40-140			
Bis(2-chloroethyl)ether	79.8	10	µg/L	100		79.8	40-140			
Bis(2-chloroisopropyl)ether	81.7	10	µg/L	100		81.7	40-140			
Bis(2-Ethylhexyl)phthalate	71.2	10	µg/L	100		71.2	40-140			
4-Bromophenylphenylether	76.0	10	µg/L	100		76.0	40-140			
Butylbenzylphthalate	74.1	10	µg/L	100		74.1	40-140			V-05
Carbazole	88.9	10	µg/L	100		88.9	40-140			
4-Chloroaniline	83.8	10	µg/L	100		83.8	40-140			
4-Chloro-3-methylphenol	81.1	10	µg/L	100		81.1	30-130			
2-Chloronaphthalene	63.0	10	µg/L	100		63.0	40-140			
2-Chlorophenol	74.4	10	µg/L	100		74.4	30-130			
4-Chlorophenylphenylether	79.9	10	µg/L	100		79.9	40-140			
Chrysene	79.0	5.0	µg/L	100		79.0	40-140			
Dibenz(a,h)anthracene	87.0	5.0	µg/L	100		87.0	40-140			
Dibenzofuran	82.3	5.0	µg/L	100		82.3	40-140			
Di-n-butylphthalate	76.2	10	µg/L	100		76.2	40-140			
3,3-Dichlorobenzidine	109	10	µg/L	100		109	40-140			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341710 - SW-846 3510C										
LCS (B341710-BS1)										
Prepared: 05/30/23 Analyzed: 06/06/23										
2,4-Dichlorophenol	78.4	10	µg/L	100		78.4	30-130			
Diethylphthalate	80.0	10	µg/L	100		80.0	40-140			
2,4-Dimethylphenol	72.4	10	µg/L	100		72.4	30-130			
Dimethylphthalate	81.4	10	µg/L	100		81.4	40-140			
4,6-Dinitro-2-methylphenol	76.3	20	µg/L	100		76.3	30-130			
2,4-Dinitrophenol	61.0	20	µg/L	100		61.0	30-130			
2,4-Dinitrotoluene	86.4	10	µg/L	100		86.4	40-140			
2,6-Dinitrotoluene	88.1	10	µg/L	100		88.1	40-140			
Di-n-octylphthalate	56.9	10	µg/L	100		56.9	40-140			V-05
Fluoranthene	87.0	5.0	µg/L	100		87.0	40-140			
Fluorene	81.6	5.0	µg/L	100		81.6	40-140			
Hexachlorobenzene	80.6	10	µg/L	100		80.6	40-140			
Hexachlorobutadiene	44.1	10	µg/L	100		44.1	40-140			
Hexachlorocyclopentadiene	56.6	10	µg/L	100		56.6	30-140			†
Hexachloroethane	26.0	10	µg/L	100		26.0	* 40-140			L-04
Indeno(1,2,3-cd)pyrene	87.4	5.0	µg/L	100		87.4	40-140			
Isophorone	85.6	10	µg/L	100		85.6	40-140			
2-Methylnaphthalene	69.8	5.0	µg/L	100		69.8	40-140			
2-Methylphenol	72.5	10	µg/L	100		72.5	30-130			
3/4-Methylphenol	71.8	10	µg/L	100		71.8	30-130			
Naphthalene	60.9	5.0	µg/L	100		60.9	40-140			
2-Nitroaniline	77.8	10	µg/L	100		77.8	40-140			
3-Nitroaniline	101	10	µg/L	100		101	40-140			V-20
4-Nitroaniline	98.6	10	µg/L	100		98.6	40-140			V-20
Nitrobenzene	75.0	10	µg/L	100		75.0	40-140			
2-Nitrophenol	68.9	10	µg/L	100		68.9	30-130			
4-Nitrophenol	52.6	20	µg/L	100		52.6	10-130			†
N-Nitrosodiphenylamine/Diphenylamine	78.5	10	µg/L	100		78.5	40-140			
N-Nitrosodi-n-propylamine	76.9	10	µg/L	100		76.9	40-140			
Pentachlorophenol	77.0	10	µg/L	100		77.0	30-130			
Phenanthrene	80.3	5.0	µg/L	100		80.3	40-140			
Phenol	40.8	10	µg/L	100		40.8	20-130			†
Pyrene	72.0	5.0	µg/L	100		72.0	40-140			
1,2,4,5-Tetrachlorobenzene	70.3	10	µg/L	100		70.3	40-140			
2,4,5-Trichlorophenol	79.1	10	µg/L	100		79.1	30-130			
2,4,6-Trichlorophenol	77.0	10	µg/L	100		77.0	30-130			
Surrogate: 2-Fluorophenol	245		µg/L	400		61.2	15-110			
Surrogate: Phenol-d6	170		µg/L	400		42.4	15-110			
Surrogate: Nitrobenzene-d5	160		µg/L	200		80.0	30-130			
Surrogate: 2-Fluorobiphenyl	154		µg/L	200		77.2	30-130			
Surrogate: 2,4,6-Tribromophenol	392		µg/L	400		98.1	15-110			
Surrogate: p-Terphenyl-d14	163		µg/L	200		81.5	30-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341710 - SW-846 3510C										
LCS Dup (B341710-BSD1)										
Prepared: 05/30/23 Analyzed: 06/06/23										
Atrazine	105	20	µg/L	100		105	40-140	2.44	20	
Benzaldehyde	73.4	10	µg/L	100		73.4	40-140	1.15	20	
Biphenyl	73.5	20	µg/L	100		73.5	40-140	1.33	20	
Caprolactam	31.5	10	µg/L	100		31.5	* 40-140	5.92	20	L-04
Acenaphthene	76.7	5.0	µg/L	100		76.7	40-140	0.353	20	
Acenaphthylene	81.4	5.0	µg/L	100		81.4	40-140	1.29	20	
Acetophenone	84.0	10	µg/L	100		84.0	40-140	3.05	20	
Anthracene	82.1	5.0	µg/L	100		82.1	40-140	0.672	20	
Benzo(a)anthracene	82.3	5.0	µg/L	100		82.3	40-140	1.25	20	
Benzo(a)pyrene	75.1	5.0	µg/L	100		75.1	40-140	0.770	20	
Benzo(b)fluoranthene	80.5	5.0	µg/L	100		80.5	40-140	0.648	20	
Benzo(g,h,i)perylene	91.5	5.0	µg/L	100		91.5	40-140	0.817	20	
Benzo(k)fluoranthene	87.0	5.0	µg/L	100		87.0	40-140	0.692	20	
Bis(2-chloroethoxy)methane	79.7	10	µg/L	100		79.7	40-140	1.76	20	
Bis(2-chloroethyl)ether	79.8	10	µg/L	100		79.8	40-140	0.0376	20	
Bis(2-chloroisopropyl)ether	80.9	10	µg/L	100		80.9	40-140	1.06	20	
Bis(2-Ethylhexyl)phthalate	72.7	10	µg/L	100		72.7	40-140	2.10	20	
4-Bromophenylphenylether	76.5	10	µg/L	100		76.5	40-140	0.643	20	
Butylbenzylphthalate	76.8	10	µg/L	100		76.8	40-140	3.58	20	V-05
Carbazole	89.9	10	µg/L	100		89.9	40-140	1.11	20	
4-Chloroaniline	89.5	10	µg/L	100		89.5	40-140	6.51	20	
4-Chloro-3-methylphenol	84.6	10	µg/L	100		84.6	30-130	4.31	20	
2-Chloronaphthalene	64.9	10	µg/L	100		64.9	40-140	3.00	20	
2-Chlorophenol	74.3	10	µg/L	100		74.3	30-130	0.0673	20	
4-Chlorophenylphenylether	80.5	10	µg/L	100		80.5	40-140	0.723	20	
Chrysene	79.8	5.0	µg/L	100		79.8	40-140	1.02	20	
Dibenz(a,h)anthracene	86.8	5.0	µg/L	100		86.8	40-140	0.207	20	
Dibenzofuran	82.4	5.0	µg/L	100		82.4	40-140	0.109	20	
Di-n-butylphthalate	77.7	10	µg/L	100		77.7	40-140	1.92	20	
3,3-Dichlorobenzidine	113	10	µg/L	100		113	40-140	3.32	20	
2,4-Dichlorophenol	79.9	10	µg/L	100		79.9	30-130	1.95	20	
Diethylphthalate	80.7	10	µg/L	100		80.7	40-140	0.908	20	
2,4-Dimethylphenol	75.4	10	µg/L	100		75.4	30-130	4.06	20	
Dimethylphthalate	83.8	10	µg/L	100		83.8	40-140	2.86	50	‡
4,6-Dinitro-2-methylphenol	79.6	20	µg/L	100		79.6	30-130	4.25	50	‡
2,4-Dinitrophenol	67.2	20	µg/L	100		67.2	30-130	9.69	50	‡
2,4-Dinitrotoluene	88.5	10	µg/L	100		88.5	40-140	2.39	20	
2,6-Dinitrotoluene	91.7	10	µg/L	100		91.7	40-140	3.97	20	
Di-n-octylphthalate	58.8	10	µg/L	100		58.8	40-140	3.34	20	V-05
Fluoranthene	87.5	5.0	µg/L	100		87.5	40-140	0.608	20	
Fluorene	81.6	5.0	µg/L	100		81.6	40-140	0.0123	20	
Hexachlorobenzene	79.4	10	µg/L	100		79.4	40-140	1.50	20	
Hexachlorobutadiene	42.5	10	µg/L	100		42.5	40-140	3.63	20	
Hexachlorocyclopentadiene	56.8	10	µg/L	100		56.8	30-140	0.370	50	† ‡
Hexachloroethane	28.7	10	µg/L	100		28.7	* 40-140	9.86	50	L-04 ‡
Indeno(1,2,3-cd)pyrene	87.4	5.0	µg/L	100		87.4	40-140	0.0686	50	‡
Isophorone	88.3	10	µg/L	100		88.3	40-140	3.12	20	
2-Methylnaphthalene	70.7	5.0	µg/L	100		70.7	40-140	1.30	20	
2-Methylphenol	76.8	10	µg/L	100		76.8	30-130	5.77	20	
3/4-Methylphenol	73.6	10	µg/L	100		73.6	30-130	2.59	20	
Naphthalene	61.6	5.0	µg/L	100		61.6	40-140	1.06	20	
2-Nitroaniline	79.0	10	µg/L	100		79.0	40-140	1.56	20	

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B341710 - SW-846 3510C
LCS Dup (B341710-BSD1)

Prepared: 05/30/23 Analyzed: 06/06/23

3-Nitroaniline	101	10	µg/L	100		101	40-140	0.168	20	V-20
4-Nitroaniline	100	10	µg/L	100		100	40-140	1.39	20	V-20
Nitrobenzene	78.2	10	µg/L	100		78.2	40-140	4.15	20	
2-Nitrophenol	70.1	10	µg/L	100		70.1	30-130	1.70	20	
4-Nitrophenol	53.6	20	µg/L	100		53.6	10-130	1.92	50	† ‡
N-Nitrosodiphenylamine/Diphenylamine	78.4	10	µg/L	100		78.4	40-140	0.191	20	
N-Nitrosodi-n-propylamine	79.4	10	µg/L	100		79.4	40-140	3.26	20	
Pentachlorophenol	77.8	10	µg/L	100		77.8	30-130	0.956	50	‡
Phenanthrene	81.2	5.0	µg/L	100		81.2	40-140	1.10	20	
Phenol	41.6	10	µg/L	100		41.6	20-130	1.82	20	†
Pyrene	72.2	5.0	µg/L	100		72.2	40-140	0.347	20	
1,2,4,5-Tetrachlorobenzene	71.1	10	µg/L	100		71.1	40-140	1.20	20	
2,4,5-Trichlorophenol	82.2	10	µg/L	100		82.2	30-130	3.79	20	
2,4,6-Trichlorophenol	78.3	10	µg/L	100		78.3	30-130	1.57	50	‡
Surrogate: 2-Fluorophenol	242		µg/L	400		60.6	15-110			
Surrogate: Phenol-d6	171		µg/L	400		42.7	15-110			
Surrogate: Nitrobenzene-d5	159		µg/L	200		79.6	30-130			
Surrogate: 2-Fluorobiphenyl	155		µg/L	200		77.3	30-130			
Surrogate: 2,4,6-Tribromophenol	383		µg/L	400		95.8	15-110			
Surrogate: p-Terphenyl-d14	163		µg/L	200		81.3	30-130			

Matrix Spike (B341710-MS1)
Source: 23E3537-09

Prepared: 05/30/23 Analyzed: 06/06/23

Atrazine	99.0	19	µg/L	93.5	ND	106	40-140			
Benzaldehyde	72.5	9.3	µg/L	93.5	ND	77.6	40-140			
Biphenyl	71.3	19	µg/L	93.5	ND	76.2	40-140			
Caprolactam	39.7	9.3	µg/L	93.5	ND	42.5	40-140			
Acenaphthene	75.7	4.7	µg/L	93.5	ND	81.0	40-140			
Acenaphthylene	79.3	4.7	µg/L	93.5	ND	84.8	40-140			
Acetophenone	82.9	9.3	µg/L	93.5	ND	88.7	40-140			
Anthracene	79.4	4.7	µg/L	93.5	ND	84.9	40-140			
Benzo(a)anthracene	77.7	4.7	µg/L	93.5	ND	83.2	40-140			
Benzo(a)pyrene	73.9	4.7	µg/L	93.5	ND	79.1	40-140			
Benzo(b)fluoranthene	77.5	4.7	µg/L	93.5	ND	82.9	40-140			
Benzo(g,h,i)perylene	87.7	4.7	µg/L	93.5	ND	93.9	40-140			
Benzo(k)fluoranthene	82.5	4.7	µg/L	93.5	ND	88.3	40-140			
Bis(2-chloroethoxy)methane	81.1	9.3	µg/L	93.5	ND	86.7	40-140			
Bis(2-chloroethyl)ether	79.5	9.3	µg/L	93.5	ND	85.1	40-140			
Bis(2-chloroisopropyl)ether	82.5	9.3	µg/L	93.5	ND	88.2	40-140			
Bis(2-Ethylhexyl)phthalate	73.9	9.3	µg/L	93.5	ND	79.1	40-140			
4-Bromophenylphenylether	73.4	9.3	µg/L	93.5	ND	78.6	40-140			
Butylbenzylphthalate	74.6	9.3	µg/L	93.5	ND	79.8	40-140			V-05
Carbazole	87.4	9.3	µg/L	93.5	ND	93.5	40-140			
4-Chloroaniline	75.4	9.3	µg/L	93.5	ND	80.7	40-140			
4-Chloro-3-methylphenol	86.6	9.3	µg/L	93.5	ND	92.7	30-130			
2-Chloronaphthalene	62.7	9.3	µg/L	93.5	ND	67.1	40-140			
2-Chlorophenol	73.0	9.3	µg/L	93.5	ND	78.1	30-130			
4-Chlorophenylphenylether	75.6	9.3	µg/L	93.5	ND	80.9	40-140			
Chrysene	76.2	4.7	µg/L	93.5	ND	81.6	40-140			
Dibenz(a,h)anthracene	82.0	4.7	µg/L	93.5	ND	87.7	40-140			
Dibenzofuran	79.4	4.7	µg/L	93.5	ND	84.9	40-140			
Di-n-butylphthalate	77.9	9.3	µg/L	93.5	ND	83.3	40-140			
3,3-Dichlorobenzidene	52.6	9.3	µg/L	93.5	ND	56.3	40-140			

R-06

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341710 - SW-846 3510C										
Matrix Spike (B341710-MS1)	Source: 23E3537-09			Prepared: 05/30/23 Analyzed: 06/06/23						
2,4-Dichlorophenol	82.6	9.3	µg/L	93.5	ND	88.4	30-130			
Diethylphthalate	79.9	9.3	µg/L	93.5	ND	85.5	40-140			
2,4-Dimethylphenol	72.3	9.3	µg/L	93.5	ND	77.4	30-130			
Dimethylphthalate	81.3	9.3	µg/L	93.5	ND	87.0	40-140			
4,6-Dinitro-2-methylphenol	82.6	19	µg/L	93.5	ND	88.4	30-130			
2,4-Dinitrophenol	75.6	19	µg/L	93.5	ND	80.9	30-130			
2,4-Dinitrotoluene	87.2	9.3	µg/L	93.5	ND	93.3	40-140			
2,6-Dinitrotoluene	87.6	9.3	µg/L	93.5	ND	93.7	40-140			
Di-n-octylphthalate	63.3	9.3	µg/L	93.5	ND	67.8	40-140			V-05
Fluoranthene	84.8	4.7	µg/L	93.5	ND	90.8	40-140			
Fluorene	79.2	4.7	µg/L	93.5	ND	84.8	40-140			
Hexachlorobenzene	76.9	9.3	µg/L	93.5	ND	82.3	40-140			
Hexachlorobutadiene	46.4	9.3	µg/L	93.5	ND	49.6	40-140			
Hexachlorocyclopentadiene	60.8	9.3	µg/L	93.5	ND	65.0	30-130			
Hexachloroethane	28.6	9.3	µg/L	93.5	ND	30.6	* 40-140			MS-09
Indeno(1,2,3-cd)pyrene	83.2	4.7	µg/L	93.5	ND	89.0	40-140			
Isophorone	87.3	9.3	µg/L	93.5	ND	93.4	40-140			
2-Methylnaphthalene	72.9	4.7	µg/L	93.5	ND	78.0	40-140			
2-Methylphenol	72.7	9.3	µg/L	93.5	ND	77.8	30-130			
3/4-Methylphenol	68.3	9.3	µg/L	93.5	ND	73.1	30-130			
Naphthalene	64.1	4.7	µg/L	93.5	ND	68.5	40-140			
2-Nitroaniline	79.7	9.3	µg/L	93.5	ND	85.3	40-140			
3-Nitroaniline	86.4	9.3	µg/L	93.5	ND	92.5	40-140			V-20
4-Nitroaniline	94.6	9.3	µg/L	93.5	ND	101	40-140			V-20
Nitrobenzene	80.3	9.3	µg/L	93.5	ND	85.9	40-140			
2-Nitrophenol	76.3	9.3	µg/L	93.5	ND	81.6	30-130			
4-Nitrophenol	56.3	19	µg/L	93.5	ND	60.2	30-130			
N-Nitrosodiphenylamine/Diphenylamine	77.6	9.3	µg/L	93.5	ND	83.0	40-140			
N-Nitrosodi-n-propylamine	81.3	9.3	µg/L	93.5	ND	87.0	40-140			
Pentachlorophenol	85.4	9.3	µg/L	93.5	ND	91.4	30-130			
Phenanthrene	77.9	4.7	µg/L	93.5	ND	83.3	40-140			
Phenol	39.5	9.3	µg/L	93.5	ND	42.2	30-130			
Pyrene	72.2	4.7	µg/L	93.5	ND	77.2	40-140			
1,2,4,5-Tetrachlorobenzene	70.3	9.3	µg/L	93.5	ND	75.2	40-140			
2,4,5-Trichlorophenol	84.3	9.3	µg/L	93.5	ND	90.2	30-130			
2,4,6-Trichlorophenol	78.9	9.3	µg/L	93.5	ND	84.4	30-130			
Surrogate: 2-Fluorophenol	228		µg/L	374		60.9	15-110			
Surrogate: Phenol-d6	158		µg/L	374		42.2	15-110			
Surrogate: Nitrobenzene-d5	163		µg/L	187		87.3	30-130			
Surrogate: 2-Fluorobiphenyl	150		µg/L	187		80.1	30-130			
Surrogate: 2,4,6-Tribromophenol	370		µg/L	374		99.0	15-110			
Surrogate: p-Terphenyl-d14	155		µg/L	187		82.7	30-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341710 - SW-846 3510C										
Matrix Spike Dup (B341710-MSD1)	Source: 23E3537-09			Prepared: 05/30/23 Analyzed: 06/06/23						
Atrazine	95.0	19	µg/L	93.5	ND	102	40-140	4.14	30	
Benzaldehyde	73.5	9.3	µg/L	93.5	ND	78.6	40-140	1.36	30	
Biphenyl	70.3	19	µg/L	93.5	ND	75.2	40-140	1.37	30	
Caprolactam	35.2	9.3	µg/L	93.5	ND	37.7 *	40-140	12.0	30	MS-22
Acenaphthene	73.2	4.7	µg/L	93.5	ND	78.3	40-140	3.38	30	
Acenaphthylene	77.7	4.7	µg/L	93.5	ND	83.2	40-140	1.94	30	
Acetophenone	82.6	9.3	µg/L	93.5	ND	88.4	40-140	0.316	30	
Anthracene	76.4	4.7	µg/L	93.5	ND	81.8	40-140	3.73	30	
Benzo(a)anthracene	73.9	4.7	µg/L	93.5	ND	79.1	40-140	5.03	30	
Benzo(a)pyrene	72.1	4.7	µg/L	93.5	ND	77.2	40-140	2.46	30	
Benzo(b)fluoranthene	76.0	4.7	µg/L	93.5	ND	81.4	40-140	1.86	30	
Benzo(g,h,i)perylene	85.4	4.7	µg/L	93.5	ND	91.4	40-140	2.63	30	
Benzo(k)fluoranthene	80.2	4.7	µg/L	93.5	ND	85.8	40-140	2.85	30	
Bis(2-chloroethoxy)methane	77.1	9.3	µg/L	93.5	ND	82.5	40-140	5.05	30	
Bis(2-chloroethyl)ether	81.3	9.3	µg/L	93.5	ND	87.0	40-140	2.17	30	
Bis(2-chloroisopropyl)ether	85.9	9.3	µg/L	93.5	ND	91.9	40-140	4.04	30	
Bis(2-Ethylhexyl)phthalate	71.9	9.3	µg/L	93.5	ND	76.9	40-140	2.82	30	
4-Bromophenylphenylether	70.4	9.3	µg/L	93.5	ND	75.4	40-140	4.14	30	
Butylbenzylphthalate	73.7	9.3	µg/L	93.5	ND	78.9	40-140	1.22	30	V-05
Carbazole	85.2	9.3	µg/L	93.5	ND	91.2	40-140	2.56	30	
4-Chloroaniline	68.5	9.3	µg/L	93.5	ND	73.3	40-140	9.64	30	
4-Chloro-3-methylphenol	82.6	9.3	µg/L	93.5	ND	88.4	30-130	4.76	30	
2-Chloronaphthalene	62.6	9.3	µg/L	93.5	ND	67.0	40-140	0.209	30	
2-Chlorophenol	73.2	9.3	µg/L	93.5	ND	78.3	30-130	0.217	30	
4-Chlorophenylphenylether	73.7	9.3	µg/L	93.5	ND	78.9	40-140	2.59	30	
Chrysene	74.5	4.7	µg/L	93.5	ND	79.7	40-140	2.28	30	
Dibenz(a,h)anthracene	80.6	4.7	µg/L	93.5	ND	86.3	40-140	1.68	30	
Dibenzofuran	77.5	4.7	µg/L	93.5	ND	82.9	40-140	2.42	30	
Di-n-butylphthalate	76.6	9.3	µg/L	93.5	ND	82.0	40-140	1.65	30	
3,3-Dichlorobenzidine	3.74	9.3	µg/L	93.5	ND	4.00 *	40-140	173 *	30	MS-23, J
2,4-Dichlorophenol	78.1	9.3	µg/L	93.5	ND	83.6	30-130	5.63	30	
Diethylphthalate	76.6	9.3	µg/L	93.5	ND	81.9	40-140	4.28	30	
2,4-Dimethylphenol	68.3	9.3	µg/L	93.5	ND	73.1	30-130	5.67	30	
Dimethylphthalate	78.7	9.3	µg/L	93.5	ND	84.3	40-140	3.17	30	
4,6-Dinitro-2-methylphenol	83.9	19	µg/L	93.5	ND	89.8	30-130	1.52	30	
2,4-Dinitrophenol	87.9	19	µg/L	93.5	ND	94.0	30-130	15.1	30	
2,4-Dinitrotoluene	85.5	9.3	µg/L	93.5	ND	91.5	40-140	1.98	30	
2,6-Dinitrotoluene	86.6	9.3	µg/L	93.5	ND	92.7	40-140	1.08	30	
Di-n-octylphthalate	65.6	9.3	µg/L	93.5	ND	70.2	40-140	3.55	30	V-05
Fluoranthene	81.8	4.7	µg/L	93.5	ND	87.5	40-140	3.63	30	
Fluorene	77.5	4.7	µg/L	93.5	ND	82.9	40-140	2.21	30	
Hexachlorobenzene	73.2	9.3	µg/L	93.5	ND	78.3	40-140	4.98	30	
Hexachlorobutadiene	52.5	9.3	µg/L	93.5	ND	56.2	40-140	12.5	30	
Hexachlorocyclopentadiene	63.6	9.3	µg/L	93.5	ND	68.0	30-130	4.48	30	
Hexachloroethane	36.6	9.3	µg/L	93.5	ND	39.1 *	40-140	24.6	30	MS-09
Indeno(1,2,3-cd)pyrene	81.4	4.7	µg/L	93.5	ND	87.1	40-140	2.23	30	
Isophorone	85.2	9.3	µg/L	93.5	ND	91.2	40-140	2.42	30	
2-Methylnaphthalene	70.7	4.7	µg/L	93.5	ND	75.6	40-140	3.15	30	
2-Methylphenol	70.2	9.3	µg/L	93.5	ND	75.1	30-130	3.52	30	
3/4-Methylphenol	67.4	9.3	µg/L	93.5	ND	72.1	30-130	1.36	30	
Naphthalene	67.0	4.7	µg/L	93.5	ND	71.7	40-140	4.52	30	
2-Nitroaniline	79.0	9.3	µg/L	93.5	ND	84.5	40-140	0.848	30	

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B341710 - SW-846 3510C
Matrix Spike Dup (B341710-MSD1)
Source: 23E3537-09

Prepared: 05/30/23 Analyzed: 06/06/23

3-Nitroaniline	72.5	9.3	µg/L	93.5	ND	77.6	40-140	17.4	30	V-20
4-Nitroaniline	77.9	9.3	µg/L	93.5	ND	83.3	40-140	19.4	30	V-20
Nitrobenzene	77.4	9.3	µg/L	93.5	ND	82.8	40-140	3.68	30	
2-Nitrophenol	76.3	9.3	µg/L	93.5	ND	81.6	30-130	0.0612	30	
4-Nitrophenol	59.5	19	µg/L	93.5	ND	63.7	30-130	5.59	30	
N-Nitrosodiphenylamine/Diphenylamine	73.8	9.3	µg/L	93.5	ND	79.0	40-140	4.95	30	
N-Nitrosodi-n-propylamine	78.7	9.3	µg/L	93.5	ND	84.2	40-140	3.24	30	
Pentachlorophenol	85.3	9.3	µg/L	93.5	ND	91.3	30-130	0.142	30	
Phenanthrene	75.6	4.7	µg/L	93.5	ND	80.9	40-140	3.00	30	
Phenol	39.0	9.3	µg/L	93.5	ND	41.8	30-130	1.14	30	
Pyrene	70.4	4.7	µg/L	93.5	ND	75.3	40-140	2.52	30	
1,2,4,5-Tetrachlorobenzene	71.3	9.3	µg/L	93.5	ND	76.3	40-140	1.45	30	
2,4,5-Trichlorophenol	83.3	9.3	µg/L	93.5	ND	89.1	30-130	1.16	30	
2,4,6-Trichlorophenol	77.8	9.3	µg/L	93.5	ND	83.3	30-130	1.38	30	
Surrogate: 2-Fluorophenol	229		µg/L	374		61.3	15-110			
Surrogate: Phenol-d6	158		µg/L	374		42.2	15-110			
Surrogate: Nitrobenzene-d5	157		µg/L	187		84.0	30-130			
Surrogate: 2-Fluorobiphenyl	148		µg/L	187		79.4	30-130			
Surrogate: 2,4,6-Tribromophenol	359		µg/L	374		95.9	15-110			
Surrogate: p-Terphenyl-d14	150		µg/L	187		80.2	30-130			

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QUALITY CONTROL
1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341470 - SW-846 3510C										
Blank (B341470-BLK1)				Prepared: 05/26/23 Analyzed: 05/30/23						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	2.73		µg/L	10.0		27.3	15-110			
LCS (B341470-BS1)				Prepared: 05/26/23 Analyzed: 05/30/23						
1,4-Dioxane	11.1	0.20	µg/L	10.0		111	40-140			
Surrogate: 1,4-Dioxane-d8	2.94		µg/L	10.0		29.4	15-110			
LCS Dup (B341470-BSD1)				Prepared: 05/26/23 Analyzed: 05/30/23						
1,4-Dioxane	11.4	0.20	µg/L	10.0		114	40-140	2.31	30	
Surrogate: 1,4-Dioxane-d8	2.83		µg/L	10.0		28.3	15-110			
Matrix Spike (B341470-MS1)				Source: 23E3537-09		Prepared: 05/26/23 Analyzed: 05/30/23				
1,4-Dioxane	11.0	0.20	µg/L	9.76	ND	113	40-140			
Surrogate: 1,4-Dioxane-d8	3.05		µg/L	9.76		31.2	15-110			
Matrix Spike Dup (B341470-MSD1)				Source: 23E3537-09		Prepared: 05/26/23 Analyzed: 05/30/23				
1,4-Dioxane	10.6	0.19	µg/L	9.71	ND	109	40-140	4.07	20	
Surrogate: 1,4-Dioxane-d8	2.81		µg/L	9.71		28.9	15-110			
Batch B341621 - SW-846 3510C										
Blank (B341621-BLK1)				Prepared: 05/29/23 Analyzed: 06/08/23						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	2.97		µg/L	10.0		29.7	15-110			
LCS (B341621-BS1)				Prepared: 05/29/23 Analyzed: 06/08/23						
1,4-Dioxane	11.2	0.20	µg/L	10.0		112	40-140			
Surrogate: 1,4-Dioxane-d8	3.39		µg/L	10.0		33.9	15-110			
LCS Dup (B341621-BSD1)				Prepared: 05/29/23 Analyzed: 06/08/23						
1,4-Dioxane	11.3	0.20	µg/L	10.0		113	40-140	0.605	30	
Surrogate: 1,4-Dioxane-d8	2.01		µg/L	10.0		20.1	15-110			
Batch B341711 - SW-846 3510C										
Blank (B341711-BLK1)				Prepared: 05/30/23 Analyzed: 06/02/23						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	2.72		µg/L	10.0		27.2	15-110			
LCS (B341711-BS1)				Prepared: 05/30/23 Analyzed: 06/02/23						
1,4-Dioxane	10.6	0.20	µg/L	10.0		106	40-140			
Surrogate: 1,4-Dioxane-d8	3.27		µg/L	10.0		32.7	15-110			

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QUALITY CONTROL
1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B341711 - SW-846 3510C
LCS Dup (B341711-BSD1)

Prepared: 05/30/23 Analyzed: 06/02/23

1,4-Dioxane	11.2	0.20	µg/L	10.0		112	40-140	5.44	30	
Surrogate: 1,4-Dioxane-d8	3.04		µg/L	10.0		30.4	15-110			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341588 - SW-846 3510C										
Blank (B341588-BLK1)										
Prepared: 05/27/23 Analyzed: 06/02/23										
alpha-Chlordane	ND	0.050	µg/L							
alpha-Chlordane [2C]	ND	0.050	µg/L							
gamma-Chlordane	ND	0.050	µg/L							
gamma-Chlordane [2C]	ND	0.050	µg/L							
Alachlor	ND	0.20	µg/L							
Alachlor [2C]	ND	0.20	µg/L							
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							R-05
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
Chlordane	ND	0.20	µg/L							
Chlordane [2C]	ND	0.20	µg/L							
4,4'-DDD	ND	0.040	µg/L							
4,4'-DDD [2C]	ND	0.040	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.040	µg/L							
4,4'-DDT [2C]	ND	0.040	µg/L							
Dieldrin	ND	0.0020	µg/L							
Dieldrin [2C]	ND	0.0020	µg/L							
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							R-05
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Endrin Aldehyde	ND	0.080	µg/L							R-05
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							
Endrin Ketone [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							R-05
Heptachlor Epoxide [2C]	ND	0.050	µg/L							R-05
Hexachlorobenzene	ND	0.050	µg/L							
Hexachlorobenzene [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	1.54		µg/L	4.00		38.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.33		µg/L	4.00		33.2	30-150			
Surrogate: Tetrachloro-m-xylene	2.30		µg/L	4.00		57.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.12		µg/L	4.00		53.0	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341588 - SW-846 3510C										
LCS (B341588-BS1)										
Prepared: 05/27/23 Analyzed: 06/02/23										
alpha-Chlordane	2.4	0.050	µg/L	2.00		122	0-200			
alpha-Chlordane [2C]	2.1	0.050	µg/L	2.00		104	0-200			
gamma-Chlordane	2.4	0.050	µg/L	2.00		118	0-200			
gamma-Chlordane [2C]	2.1	0.050	µg/L	2.00		105	0-200			
Alachlor	2.0	0.20	µg/L	2.00		97.8	40-140			
Alachlor [2C]	1.8	0.20	µg/L	2.00		90.9	40-140			
Aldrin	1.8	0.050	µg/L	2.00		88.3	40-140			
Aldrin [2C]	1.5	0.050	µg/L	2.00		74.0	40-140			R-05
alpha-BHC	2.5	0.050	µg/L	2.00		127	40-140			
alpha-BHC [2C]	2.3	0.050	µg/L	2.00		115	40-140			
beta-BHC	2.4	0.050	µg/L	2.00		118	40-140			
beta-BHC [2C]	2.0	0.050	µg/L	2.00		98.7	40-140			
delta-BHC	2.3	0.050	µg/L	2.00		116	40-140			
delta-BHC [2C]	1.9	0.050	µg/L	2.00		94.1	40-140			
gamma-BHC (Lindane)	2.5	0.030	µg/L	2.00		127	40-140			
gamma-BHC (Lindane) [2C]	2.2	0.030	µg/L	2.00		111	40-140			
4,4'-DDD	2.6	0.040	µg/L	2.00		131	40-140			V-06
4,4'-DDD [2C]	2.3	0.040	µg/L	2.00		117	40-140			
4,4'-DDE	2.5	0.040	µg/L	2.00		126	40-140			
4,4'-DDE [2C]	2.2	0.040	µg/L	2.00		111	40-140			
4,4'-DDT	2.8	0.040	µg/L	2.00		141	* 40-140			V-06
4,4'-DDT [2C]	2.4	0.040	µg/L	2.00		122	40-140			
Dieldrin	2.5	0.0020	µg/L	2.00		124	40-140			
Dieldrin [2C]	2.1	0.0020	µg/L	2.00		105	40-140			
Endosulfan I	2.4	0.050	µg/L	2.00		119	40-140			
Endosulfan I [2C]	2.0	0.050	µg/L	2.00		102	40-140			
Endosulfan II	2.3	0.080	µg/L	2.00		115	40-140			
Endosulfan II [2C]	2.0	0.080	µg/L	2.00		100	40-140			
Endosulfan Sulfate	2.1	0.080	µg/L	2.00		104	40-140			R-05
Endosulfan Sulfate [2C]	2.0	0.080	µg/L	2.00		101	40-140			
Endrin	2.5	0.080	µg/L	2.00		127	40-140			
Endrin [2C]	2.1	0.080	µg/L	2.00		107	40-140			
Endrin Aldehyde	2.7	0.080	µg/L	2.00		134	40-140			R-05
Endrin Aldehyde [2C]	2.3	0.080	µg/L	2.00		116	40-140			
Endrin Ketone	2.3	0.080	µg/L	2.00		114	40-140			
Endrin Ketone [2C]	2.0	0.080	µg/L	2.00		98.8	40-140			
Heptachlor	2.0	0.050	µg/L	2.00		99.1	40-140			
Heptachlor [2C]	1.7	0.050	µg/L	2.00		83.9	40-140			
Heptachlor Epoxide	2.5	0.050	µg/L	2.00		123	40-140			R-05
Heptachlor Epoxide [2C]	2.1	0.050	µg/L	2.00		103	40-140			R-05
Hexachlorobenzene	1.8	0.050	µg/L	2.00		89.6	40-140			
Hexachlorobenzene [2C]	1.6	0.050	µg/L	2.00		78.9	40-140			
Methoxychlor	2.8	0.50	µg/L	2.00		139	40-140			V-06
Methoxychlor [2C]	2.3	0.50	µg/L	2.00		114	40-140			
Surrogate: Decachlorobiphenyl	2.48		µg/L	4.00		62.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.17		µg/L	4.00		54.3	30-150			
Surrogate: Tetrachloro-m-xylene	2.60		µg/L	4.00		65.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.38		µg/L	4.00		59.4	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341588 - SW-846 3510C										
LCS Dup (B341588-BSD1)										
Prepared: 05/27/23 Analyzed: 06/02/23										
alpha-Chlordane	2.1	0.050	µg/L	2.00		104	0-200	15.8		
alpha-Chlordane [2C]	1.8	0.050	µg/L	2.00		88.9	0-200	15.4		
gamma-Chlordane	1.8	0.050	µg/L	2.00		89.7	0-200	27.5		
gamma-Chlordane [2C]	1.8	0.050	µg/L	2.00		89.2	0-200	16.7		
Alachlor	1.6	0.20	µg/L	2.00		81.6	40-140	18.1	20	
Alachlor [2C]	1.6	0.20	µg/L	2.00		78.3	40-140	14.9	20	
Aldrin	1.5	0.050	µg/L	2.00		74.3	40-140	17.2	20	
Aldrin [2C]	1.2	0.050	µg/L	2.00		58.8	40-140	22.8 *	20	R-05
alpha-BHC	2.1	0.050	µg/L	2.00		107	40-140	17.3	20	
alpha-BHC [2C]	1.9	0.050	µg/L	2.00		94.5	40-140	19.8	20	
beta-BHC	2.2	0.050	µg/L	2.00		110	40-140	7.02	20	
beta-BHC [2C]	1.7	0.050	µg/L	2.00		83.6	40-140	16.6	20	
delta-BHC	2.0	0.050	µg/L	2.00		98.5	40-140	16.4	20	
delta-BHC [2C]	1.6	0.050	µg/L	2.00		77.8	40-140	18.9	20	
gamma-BHC (Lindane)	2.2	0.030	µg/L	2.00		112	40-140	12.5	20	
gamma-BHC (Lindane) [2C]	1.9	0.030	µg/L	2.00		93.3	40-140	16.9	20	
4,4'-DDD	2.4	0.040	µg/L	2.00		118	40-140	10.2	20	V-06
4,4'-DDD [2C]	2.1	0.040	µg/L	2.00		105	40-140	11.1	20	
4,4'-DDE	2.2	0.040	µg/L	2.00		111	40-140	12.3	20	
4,4'-DDE [2C]	1.9	0.040	µg/L	2.00		96.9	40-140	13.2	20	
4,4'-DDT	2.6	0.040	µg/L	2.00		131	40-140	7.14	20	V-06
4,4'-DDT [2C]	2.1	0.040	µg/L	2.00		105	40-140	14.3	20	
Dieldrin	2.2	0.0020	µg/L	2.00		109	40-140	12.4	20	
Dieldrin [2C]	1.9	0.0020	µg/L	2.00		93.9	40-140	11.5	20	
Endosulfan I	2.1	0.050	µg/L	2.00		105	40-140	12.6	20	
Endosulfan I [2C]	1.8	0.050	µg/L	2.00		88.2	40-140	14.1	20	
Endosulfan II	2.0	0.080	µg/L	2.00		100	40-140	13.5	20	
Endosulfan II [2C]	1.8	0.080	µg/L	2.00		87.8	40-140	13.2	20	
Endosulfan Sulfate	1.7	0.080	µg/L	2.00		85.0	40-140	20.0	20	R-05
Endosulfan Sulfate [2C]	1.7	0.080	µg/L	2.00		82.7	40-140	19.8	20	
Endrin	2.3	0.080	µg/L	2.00		115	40-140	9.90	20	
Endrin [2C]	1.9	0.080	µg/L	2.00		96.3	40-140	10.8	20	
Endrin Aldehyde	2.2	0.080	µg/L	2.00		109	40-140	20.6 *	20	R-05
Endrin Aldehyde [2C]	2.0	0.080	µg/L	2.00		99.5	40-140	15.3	20	
Endrin Ketone	2.0	0.080	µg/L	2.00		101	40-140	12.2	20	
Endrin Ketone [2C]	1.7	0.080	µg/L	2.00		86.5	40-140	13.2	20	
Heptachlor	1.7	0.050	µg/L	2.00		83.1	40-140	17.5	20	
Heptachlor [2C]	1.4	0.050	µg/L	2.00		68.9	40-140	19.7	20	
Heptachlor Epoxide	1.8	0.050	µg/L	2.00		88.4	40-140	32.4 *	20	R-05
Heptachlor Epoxide [2C]	1.6	0.050	µg/L	2.00		80.4	40-140	24.6 *	20	R-05
Hexachlorobenzene	1.7	0.050	µg/L	2.00		83.6	40-140	6.93	20	
Hexachlorobenzene [2C]	1.5	0.050	µg/L	2.00		73.5	40-140	7.14	20	
Methoxychlor	2.7	0.50	µg/L	2.00		133	40-140	4.24	20	V-06
Methoxychlor [2C]	2.2	0.50	µg/L	2.00		109	40-140	4.30	20	
Surrogate: Decachlorobiphenyl	3.67		µg/L	4.00		91.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.13		µg/L	4.00		78.2	30-150			
Surrogate: Tetrachloro-m-xylene	2.37		µg/L	4.00		59.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.19		µg/L	4.00		54.8	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B341714 - SW-846 3510C
Blank (B341714-BLK1)

Prepared: 05/30/23 Analyzed: 06/08/23

alpha-Chlordane	ND	0.050	µg/L							
alpha-Chlordane [2C]	ND	0.050	µg/L							
gamma-Chlordane	ND	0.050	µg/L							
gamma-Chlordane [2C]	ND	0.050	µg/L							
Alachlor	ND	0.20	µg/L							
Alachlor [2C]	ND	0.20	µg/L							
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
Chlordane	ND	0.20	µg/L							
Chlordane [2C]	ND	0.20	µg/L							
4,4'-DDD	ND	0.040	µg/L							
4,4'-DDD [2C]	ND	0.040	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.040	µg/L							
4,4'-DDT [2C]	ND	0.040	µg/L							
Dieldrin	ND	0.0020	µg/L							
Dieldrin [2C]	ND	0.0020	µg/L							
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Endrin Aldehyde	ND	0.080	µg/L							
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							
Endrin Ketone [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Hexachlorobenzene	ND	0.050	µg/L							
Hexachlorobenzene [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	1.83		µg/L	4.00		45.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.83		µg/L	4.00		45.7	30-150			
Surrogate: Tetrachloro-m-xylene	2.68		µg/L	4.00		67.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.54		µg/L	4.00		63.5	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341714 - SW-846 3510C										
LCS (B341714-BS1)										
Prepared: 05/30/23 Analyzed: 06/09/23										
alpha-Chlordane	2.1	0.050	µg/L	2.00		106	0-200			
alpha-Chlordane [2C]	2.1	0.050	µg/L	2.00		106	0-200			
gamma-Chlordane	2.1	0.050	µg/L	2.00		106	0-200			
gamma-Chlordane [2C]	2.1	0.050	µg/L	2.00		106	0-200			
Alachlor	1.8	0.20	µg/L	2.00		91.6	40-140			
Alachlor [2C]	1.8	0.20	µg/L	2.00		88.2	40-140			
Aldrin	1.6	0.050	µg/L	2.00		77.6	40-140			
Aldrin [2C]	1.5	0.050	µg/L	2.00		74.3	40-140			
alpha-BHC	2.3	0.050	µg/L	2.00		114	40-140			
alpha-BHC [2C]	2.1	0.050	µg/L	2.00		107	40-140			
beta-BHC	2.1	0.050	µg/L	2.00		103	40-140			
beta-BHC [2C]	2.0	0.050	µg/L	2.00		99.3	40-140			
delta-BHC	2.0	0.050	µg/L	2.00		97.5	40-140			
delta-BHC [2C]	1.9	0.050	µg/L	2.00		93.4	40-140			
gamma-BHC (Lindane)	2.2	0.030	µg/L	2.00		112	40-140			
gamma-BHC (Lindane) [2C]	2.1	0.030	µg/L	2.00		107	40-140			
4,4'-DDD	2.4	0.040	µg/L	2.00		119	40-140			
4,4'-DDD [2C]	2.3	0.040	µg/L	2.00		116	40-140			
4,4'-DDE	2.2	0.040	µg/L	2.00		112	40-140			
4,4'-DDE [2C]	2.2	0.040	µg/L	2.00		111	40-140			
4,4'-DDT	2.3	0.040	µg/L	2.00		117	40-140			
4,4'-DDT [2C]	2.3	0.040	µg/L	2.00		113	40-140			
Dieldrin	2.2	0.0020	µg/L	2.00		110	40-140			
Dieldrin [2C]	2.2	0.0020	µg/L	2.00		108	40-140			
Endosulfan I	2.1	0.050	µg/L	2.00		103	40-140			
Endosulfan I [2C]	2.0	0.050	µg/L	2.00		99.7	40-140			
Endosulfan II	2.0	0.080	µg/L	2.00		100	40-140			
Endosulfan II [2C]	1.9	0.080	µg/L	2.00		97.3	40-140			
Endosulfan Sulfate	2.0	0.080	µg/L	2.00		98.3	40-140			
Endosulfan Sulfate [2C]	1.9	0.080	µg/L	2.00		95.0	40-140			
Endrin	2.2	0.080	µg/L	2.00		110	40-140			
Endrin [2C]	2.1	0.080	µg/L	2.00		106	40-140			
Endrin Aldehyde	2.1	0.080	µg/L	2.00		105	40-140			
Endrin Aldehyde [2C]	2.0	0.080	µg/L	2.00		100	40-140			
Endrin Ketone	2.0	0.080	µg/L	2.00		101	40-140			
Endrin Ketone [2C]	1.9	0.080	µg/L	2.00		96.6	40-140			
Heptachlor	1.8	0.050	µg/L	2.00		91.3	40-140			
Heptachlor [2C]	1.7	0.050	µg/L	2.00		85.8	40-140			
Heptachlor Epoxide	2.1	0.050	µg/L	2.00		106	40-140			
Heptachlor Epoxide [2C]	2.0	0.050	µg/L	2.00		101	40-140			
Hexachlorobenzene	1.8	0.050	µg/L	2.00		88.0	40-140			
Hexachlorobenzene [2C]	1.6	0.050	µg/L	2.00		82.3	40-140			
Methoxychlor	2.1	0.50	µg/L	2.00		104	40-140			
Methoxychlor [2C]	2.0	0.50	µg/L	2.00		100	40-140			
Surrogate: Decachlorobiphenyl	4.36		µg/L	4.00		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	4.38		µg/L	4.00		109	30-150			
Surrogate: Tetrachloro-m-xylene	2.93		µg/L	4.00		73.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.80		µg/L	4.00		69.9	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341714 - SW-846 3510C										
LCS Dup (B341714-BS1)										
Prepared: 05/30/23 Analyzed: 06/08/23										
alpha-Chlordane	2.0	0.050	µg/L	2.00		102	0-200	3.90		
alpha-Chlordane [2C]	2.1	0.050	µg/L	2.00		104	0-200	1.66		
gamma-Chlordane	2.1	0.050	µg/L	2.00		104	0-200	1.85		
gamma-Chlordane [2C]	2.1	0.050	µg/L	2.00		106	0-200	0.174		
Alachlor	1.8	0.20	µg/L	2.00		87.8	40-140	4.20	20	
Alachlor [2C]	1.7	0.20	µg/L	2.00		85.9	40-140	2.63	20	
Aldrin	1.7	0.050	µg/L	2.00		84.4	40-140	8.31	20	
Aldrin [2C]	1.7	0.050	µg/L	2.00		82.6	40-140	10.7	20	
alpha-BHC	2.3	0.050	µg/L	2.00		117	40-140	2.62	20	
alpha-BHC [2C]	2.3	0.050	µg/L	2.00		113	40-140	5.35	20	
beta-BHC	2.1	0.050	µg/L	2.00		104	40-140	0.354	20	
beta-BHC [2C]	1.9	0.050	µg/L	2.00		97.4	40-140	1.93	20	
delta-BHC	1.9	0.050	µg/L	2.00		96.8	40-140	0.769	20	
delta-BHC [2C]	1.9	0.050	µg/L	2.00		95.8	40-140	2.54	20	
gamma-BHC (Lindane)	2.3	0.030	µg/L	2.00		114	40-140	2.03	20	
gamma-BHC (Lindane) [2C]	2.2	0.030	µg/L	2.00		111	40-140	3.85	20	
4,4'-DDD	2.3	0.040	µg/L	2.00		113	40-140	4.79	20	
4,4'-DDD [2C]	2.2	0.040	µg/L	2.00		112	40-140	2.81	20	
4,4'-DDE	2.1	0.040	µg/L	2.00		107	40-140	4.68	20	
4,4'-DDE [2C]	2.1	0.040	µg/L	2.00		107	40-140	3.36	20	
4,4'-DDT	2.2	0.040	µg/L	2.00		110	40-140	6.24	20	
4,4'-DDT [2C]	2.1	0.040	µg/L	2.00		107	40-140	5.08	20	
Dieldrin	2.1	0.0020	µg/L	2.00		104	40-140	5.18	20	
Dieldrin [2C]	2.1	0.0020	µg/L	2.00		105	40-140	2.72	20	
Endosulfan I	2.0	0.050	µg/L	2.00		99.1	40-140	4.29	20	
Endosulfan I [2C]	2.0	0.050	µg/L	2.00		97.5	40-140	2.17	20	
Endosulfan II	1.9	0.080	µg/L	2.00		94.6	40-140	5.96	20	
Endosulfan II [2C]	1.9	0.080	µg/L	2.00		93.0	40-140	4.53	20	
Endosulfan Sulfate	1.8	0.080	µg/L	2.00		91.3	40-140	7.42	20	
Endosulfan Sulfate [2C]	1.8	0.080	µg/L	2.00		89.4	40-140	6.04	20	
Endrin	2.1	0.080	µg/L	2.00		104	40-140	5.96	20	
Endrin [2C]	2.0	0.080	µg/L	2.00		101	40-140	4.20	20	
Endrin Aldehyde	2.0	0.080	µg/L	2.00		98.5	40-140	6.09	20	
Endrin Aldehyde [2C]	1.9	0.080	µg/L	2.00		94.6	40-140	5.61	20	
Endrin Ketone	1.9	0.080	µg/L	2.00		94.8	40-140	6.57	20	
Endrin Ketone [2C]	1.8	0.080	µg/L	2.00		91.5	40-140	5.48	20	
Heptachlor	1.9	0.050	µg/L	2.00		94.6	40-140	3.58	20	
Heptachlor [2C]	1.8	0.050	µg/L	2.00		91.3	40-140	6.25	20	
Heptachlor Epoxide	2.1	0.050	µg/L	2.00		103	40-140	2.91	20	
Heptachlor Epoxide [2C]	2.0	0.050	µg/L	2.00		99.4	40-140	1.54	20	
Hexachlorobenzene	1.9	0.050	µg/L	2.00		95.1	40-140	7.67	20	
Hexachlorobenzene [2C]	1.8	0.050	µg/L	2.00		90.9	40-140	9.99	20	
Methoxychlor	1.9	0.50	µg/L	2.00		95.9	40-140	8.06	20	
Methoxychlor [2C]	1.8	0.50	µg/L	2.00		92.2	40-140	8.05	20	
Surrogate: Decachlorobiphenyl	1.55		µg/L	4.00		38.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.54		µg/L	4.00		38.5	30-150			
Surrogate: Tetrachloro-m-xylene	3.13		µg/L	4.00		78.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.01		µg/L	4.00		75.1	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341714 - SW-846 3510C										
Matrix Spike (B341714-MS1)	Source: 23E3537-09			Prepared: 05/30/23 Analyzed: 06/09/23						
Alachlor	7.1	0.19	µg/L	1.85	ND	382	* 30-150			MS-15
Alachlor [2C]	3.4	0.19	µg/L	1.85	ND	184	* 30-150			MS-15
Aldrin	1.6	0.046	µg/L	1.85	ND	86.7	30-150			
Aldrin [2C]	1.4	0.046	µg/L	1.85	ND	78.3	30-150			
alpha-BHC	1.7	0.046	µg/L	1.85	ND	93.4	30-150			
alpha-BHC [2C]	1.6	0.046	µg/L	1.85	ND	87.5	30-150			
beta-BHC	1.7	0.046	µg/L	1.85	ND	90.4	30-150			
beta-BHC [2C]	1.8	0.046	µg/L	1.85	ND	96.3	30-150			
delta-BHC	1.6	0.046	µg/L	1.85	ND	85.2	30-150			
delta-BHC [2C]	1.5	0.046	µg/L	1.85	ND	80.3	30-150			
gamma-BHC (Lindane)	1.7	0.028	µg/L	1.85	ND	90.2	30-150			
gamma-BHC (Lindane) [2C]	1.7	0.028	µg/L	1.85	ND	91.5	30-150			
4,4'-DDD	1.9	0.037	µg/L	1.85	ND	100	30-150			
4,4'-DDD [2C]	1.8	0.037	µg/L	1.85	ND	99.8	30-150			
4,4'-DDE	1.9	0.037	µg/L	1.85	ND	100	30-150			
4,4'-DDE [2C]	1.7	0.037	µg/L	1.85	ND	93.4	30-150			
4,4'-DDT	1.9	0.037	µg/L	1.85	ND	101	30-150			
4,4'-DDT [2C]	1.7	0.037	µg/L	1.85	ND	94.4	30-150			
Dieldrin	1.9	0.0019	µg/L	1.85	ND	101	30-150			
Dieldrin [2C]	1.9	0.0019	µg/L	1.85	ND	101	30-150			
Endosulfan I	1.9	0.046	µg/L	1.85	ND	100	30-150			
Endosulfan I [2C]	1.8	0.046	µg/L	1.85	ND	96.7	30-150			
Endosulfan II	1.8	0.074	µg/L	1.85	ND	95.1	30-150			
Endosulfan II [2C]	1.7	0.074	µg/L	1.85	ND	92.1	30-150			
Endosulfan Sulfate	1.8	0.074	µg/L	1.85	ND	95.4	30-150			
Endosulfan Sulfate [2C]	1.7	0.074	µg/L	1.85	ND	92.9	30-150			
Endrin	2.0	0.074	µg/L	1.85	ND	109	30-150			
Endrin [2C]	1.9	0.074	µg/L	1.85	ND	103	30-150			
Endrin Aldehyde	1.9	0.074	µg/L	1.85	ND	102	30-150			
Endrin Aldehyde [2C]	1.9	0.074	µg/L	1.85	ND	104	30-150			
Endrin Ketone	1.8	0.074	µg/L	1.85	ND	96.7	30-150			
Endrin Ketone [2C]	1.8	0.074	µg/L	1.85	ND	97.6	30-150			
Heptachlor	1.7	0.046	µg/L	1.85	ND	93.9	30-150			
Heptachlor [2C]	1.7	0.046	µg/L	1.85	ND	93.5	30-150			
Heptachlor Epoxide	2.0	0.046	µg/L	1.85	ND	106	30-150			
Heptachlor Epoxide [2C]	1.8	0.046	µg/L	1.85	ND	99.7	30-150			
Hexachlorobenzene	1.4	0.046	µg/L	1.85	ND	76.6	30-150			
Hexachlorobenzene [2C]	1.4	0.046	µg/L	1.85	ND	73.2	30-150			
Methoxychlor	2.0	0.46	µg/L	1.85	ND	105	30-150			
Methoxychlor [2C]	1.9	0.46	µg/L	1.85	ND	101	30-150			
Surrogate: Decachlorobiphenyl	3.48		µg/L	3.70		94.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.48		µg/L	3.70		93.9	30-150			
Surrogate: Tetrachloro-m-xylene	2.43		µg/L	3.70		65.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.29		µg/L	3.70		61.8	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341714 - SW-846 3510C										
Matrix Spike Dup (B341714-MSD1)	Source: 23E3537-09			Prepared: 05/30/23 Analyzed: 06/09/23						
Alachlor	6.6	0.18	µg/L	1.82	ND	363	* 30-150	6.98	30	MS-15
Alachlor [2C]	3.3	0.18	µg/L	1.82	ND	184	* 30-150	2.20	30	MS-15
Aldrin	1.5	0.045	µg/L	1.82	ND	81.5	30-150	8.05	30	
Aldrin [2C]	1.4	0.045	µg/L	1.82	ND	74.5	30-150	6.81	30	
alpha-BHC	1.5	0.045	µg/L	1.82	ND	84.3	30-150	12.1	30	
alpha-BHC [2C]	1.5	0.045	µg/L	1.82	ND	80.3	30-150	10.5	30	
beta-BHC	1.6	0.045	µg/L	1.82	ND	86.0	30-150	6.81	30	
beta-BHC [2C]	1.7	0.045	µg/L	1.82	ND	92.1	30-150	6.35	30	
delta-BHC	1.5	0.045	µg/L	1.82	ND	80.0	30-150	8.14	30	
delta-BHC [2C]	1.4	0.045	µg/L	1.82	ND	77.0	30-150	6.02	30	
gamma-BHC (Lindane)	1.5	0.027	µg/L	1.82	ND	82.4	30-150	10.9	30	
gamma-BHC (Lindane) [2C]	1.5	0.027	µg/L	1.82	ND	84.8	30-150	9.53	30	
4,4'-DDD	1.7	0.036	µg/L	1.82	ND	95.5	30-150	6.92	30	
4,4'-DDD [2C]	1.8	0.036	µg/L	1.82	ND	97.1	30-150	4.54	30	
4,4'-DDE	1.7	0.036	µg/L	1.82	ND	95.1	30-150	7.11	30	
4,4'-DDE [2C]	1.6	0.036	µg/L	1.82	ND	90.2	30-150	5.40	30	
4,4'-DDT	1.7	0.036	µg/L	1.82	ND	95.7	30-150	7.05	30	
4,4'-DDT [2C]	1.7	0.036	µg/L	1.82	ND	93.4	30-150	2.86	30	
Dieldrin	1.7	0.0018	µg/L	1.82	ND	95.0	30-150	7.65	30	
Dieldrin [2C]	1.8	0.0018	µg/L	1.82	ND	97.2	30-150	5.39	30	
Endosulfan I	1.7	0.045	µg/L	1.82	ND	94.1	30-150	7.88	30	
Endosulfan I [2C]	1.7	0.045	µg/L	1.82	ND	92.6	30-150	6.19	30	
Endosulfan II	1.7	0.073	µg/L	1.82	ND	92.0	30-150	5.16	30	
Endosulfan II [2C]	1.7	0.073	µg/L	1.82	ND	90.8	30-150	3.18	30	
Endosulfan Sulfate	1.7	0.073	µg/L	1.82	ND	91.4	30-150	6.15	30	
Endosulfan Sulfate [2C]	1.7	0.073	µg/L	1.82	ND	92.8	30-150	2.01	30	
Endrin	1.9	0.073	µg/L	1.82	ND	105	30-150	5.51	30	
Endrin [2C]	1.8	0.073	µg/L	1.82	ND	101	30-150	4.21	30	
Endrin Aldehyde	1.8	0.073	µg/L	1.82	ND	97.0	30-150	6.70	30	
Endrin Aldehyde [2C]	1.8	0.073	µg/L	1.82	ND	99.4	30-150	6.31	30	
Endrin Ketone	1.7	0.073	µg/L	1.82	ND	92.8	30-150	5.93	30	
Endrin Ketone [2C]	1.8	0.073	µg/L	1.82	ND	98.0	30-150	1.44	30	
Heptachlor	1.6	0.045	µg/L	1.82	ND	86.7	30-150	9.75	30	
Heptachlor [2C]	1.6	0.045	µg/L	1.82	ND	88.5	30-150	7.28	30	
Heptachlor Epoxide	1.8	0.045	µg/L	1.82	ND	99.6	30-150	8.41	30	
Heptachlor Epoxide [2C]	1.7	0.045	µg/L	1.82	ND	94.4	30-150	7.36	30	
Hexachlorobenzene	1.3	0.045	µg/L	1.82	ND	70.5	30-150	10.2	30	
Hexachlorobenzene [2C]	1.2	0.045	µg/L	1.82	ND	68.3	30-150	8.78	30	
Methoxychlor	1.8	0.45	µg/L	1.82	ND	99.9	30-150	7.23	30	
Methoxychlor [2C]	1.9	0.45	µg/L	1.82	ND	102	30-150	0.964	30	
Surrogate: Decachlorobiphenyl	3.34		µg/L	3.64		91.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.38		µg/L	3.64		92.8	30-150			
Surrogate: Tetrachloro-m-xylene	2.09		µg/L	3.64		57.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.02		µg/L	3.64		55.4	30-150			

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QUALITY CONTROL
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342802 - SW-846 3510C
Blank (B342802-BLK1)

Prepared: 05/27/23 Analyzed: 06/08/23

alpha-Chlordane	ND	0.050	µg/L							
alpha-Chlordane [2C]	ND	0.050	µg/L							
gamma-Chlordane	ND	0.050	µg/L							
gamma-Chlordane [2C]	ND	0.050	µg/L							
Alachlor	ND	0.20	µg/L							
Alachlor [2C]	ND	0.20	µg/L							
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
Chlordane	ND	0.20	µg/L							
Chlordane [2C]	ND	0.20	µg/L							
4,4'-DDD	ND	0.040	µg/L							
4,4'-DDD [2C]	ND	0.040	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.040	µg/L							
4,4'-DDT [2C]	ND	0.040	µg/L							
Dieldrin	ND	0.0020	µg/L							
Dieldrin [2C]	ND	0.0020	µg/L							
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Endrin Aldehyde	ND	0.080	µg/L							
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							
Endrin Ketone [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Hexachlorobenzene	ND	0.050	µg/L							
Hexachlorobenzene [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	1.35		µg/L	4.00		33.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.32		µg/L	4.00		33.0	30-150			
Surrogate: Tetrachloro-m-xylene	2.24		µg/L	4.00		56.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.18		µg/L	4.00		54.6	30-150			

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QUALITY CONTROL
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342802 - SW-846 3510C										
LCS (B342802-BS1)					Prepared: 05/27/23 Analyzed: 06/08/23					
alpha-Chlordane	2.2	0.050	µg/L	2.00		109	0-200			
alpha-Chlordane [2C]	2.2	0.050	µg/L	2.00		111	0-200			
gamma-Chlordane	2.2	0.050	µg/L	2.00		111	0-200			
gamma-Chlordane [2C]	2.3	0.050	µg/L	2.00		113	0-200			
Alachlor	2.0	0.20	µg/L	2.00		97.6	40-140			
Alachlor [2C]	1.9	0.20	µg/L	2.00		95.6	40-140			
Aldrin	1.6	0.050	µg/L	2.00		80.0	40-140			
Aldrin [2C]	1.6	0.050	µg/L	2.00		78.2	40-140			
alpha-BHC	2.5	0.050	µg/L	2.00		123	40-140			
alpha-BHC [2C]	2.4	0.050	µg/L	2.00		118	40-140			
beta-BHC	2.2	0.050	µg/L	2.00		110	40-140			
beta-BHC [2C]	2.2	0.050	µg/L	2.00		108	40-140			
delta-BHC	2.1	0.050	µg/L	2.00		106	40-140			
delta-BHC [2C]	2.1	0.050	µg/L	2.00		105	40-140			
gamma-BHC (Lindane)	2.4	0.030	µg/L	2.00		121	40-140			
gamma-BHC (Lindane) [2C]	2.3	0.030	µg/L	2.00		117	40-140			
4,4'-DDD	2.4	0.040	µg/L	2.00		121	40-140			
4,4'-DDD [2C]	2.4	0.040	µg/L	2.00		120	40-140			
4,4'-DDE	2.3	0.040	µg/L	2.00		114	40-140			
4,4'-DDE [2C]	2.3	0.040	µg/L	2.00		115	40-140			
4,4'-DDT	2.4	0.040	µg/L	2.00		118	40-140			
4,4'-DDT [2C]	2.3	0.040	µg/L	2.00		116	40-140			
Dieldrin	2.2	0.0020	µg/L	2.00		111	40-140			
Dieldrin [2C]	2.2	0.0020	µg/L	2.00		112	40-140			
Endosulfan I	2.1	0.050	µg/L	2.00		105	40-140			
Endosulfan I [2C]	2.1	0.050	µg/L	2.00		103	40-140			
Endosulfan II	2.0	0.080	µg/L	2.00		102	40-140			
Endosulfan II [2C]	2.0	0.080	µg/L	2.00		99.8	40-140			
Endosulfan Sulfate	2.0	0.080	µg/L	2.00		101	40-140			
Endosulfan Sulfate [2C]	2.0	0.080	µg/L	2.00		99.2	40-140			
Endrin	2.2	0.080	µg/L	2.00		111	40-140			
Endrin [2C]	2.2	0.080	µg/L	2.00		108	40-140			
Endrin Aldehyde	2.2	0.080	µg/L	2.00		110	40-140			
Endrin Aldehyde [2C]	2.1	0.080	µg/L	2.00		105	40-140			
Endrin Ketone	2.1	0.080	µg/L	2.00		103	40-140			
Endrin Ketone [2C]	2.0	0.080	µg/L	2.00		99.6	40-140			
Heptachlor	1.8	0.050	µg/L	2.00		90.1	40-140			
Heptachlor [2C]	1.7	0.050	µg/L	2.00		86.1	40-140			
Heptachlor Epoxide	2.2	0.050	µg/L	2.00		109	40-140			
Heptachlor Epoxide [2C]	2.1	0.050	µg/L	2.00		106	40-140			
Hexachlorobenzene	1.7	0.050	µg/L	2.00		85.5	40-140			
Hexachlorobenzene [2C]	1.6	0.050	µg/L	2.00		81.9	40-140			
Methoxychlor	2.1	0.50	µg/L	2.00		105	40-140			
Methoxychlor [2C]	2.0	0.50	µg/L	2.00		101	40-140			
Surrogate: Decachlorobiphenyl	2.18		µg/L	4.00		54.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.21		µg/L	4.00		55.4	30-150			
Surrogate: Tetrachloro-m-xylene	2.55		µg/L	4.00		63.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.46		µg/L	4.00		61.6	30-150			

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QUALITY CONTROL
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342802 - SW-846 3510C										
LCS Dup (B342802-BSD1)					Prepared: 05/27/23 Analyzed: 06/08/23					
alpha-Chlordane	2.2	0.050	µg/L	2.00		112	0-200	2.17		
alpha-Chlordane [2C]	2.3	0.050	µg/L	2.00		113	0-200	1.69		
gamma-Chlordane	2.3	0.050	µg/L	2.00		114	0-200	2.25		
gamma-Chlordane [2C]	2.3	0.050	µg/L	2.00		115	0-200	2.07		
Alachlor	2.0	0.20	µg/L	2.00		99.4	40-140	1.81	20	
Alachlor [2C]	1.9	0.20	µg/L	2.00		97.1	40-140	1.57	20	
Aldrin	1.6	0.050	µg/L	2.00		81.9	40-140	2.38	20	
Aldrin [2C]	1.6	0.050	µg/L	2.00		80.0	40-140	2.24	20	
alpha-BHC	2.5	0.050	µg/L	2.00		126	40-140	2.94	20	
alpha-BHC [2C]	2.4	0.050	µg/L	2.00		122	40-140	3.47	20	
beta-BHC	2.3	0.050	µg/L	2.00		113	40-140	2.70	20	
beta-BHC [2C]	2.2	0.050	µg/L	2.00		111	40-140	2.69	20	
delta-BHC	2.2	0.050	µg/L	2.00		109	40-140	2.76	20	
delta-BHC [2C]	2.1	0.050	µg/L	2.00		107	40-140	2.65	20	
gamma-BHC (Lindane)	2.5	0.030	µg/L	2.00		124	40-140	2.92	20	
gamma-BHC (Lindane) [2C]	2.4	0.030	µg/L	2.00		121	40-140	3.26	20	
4,4'-DDD	2.4	0.040	µg/L	2.00		122	40-140	0.589	20	
4,4'-DDD [2C]	2.4	0.040	µg/L	2.00		120	40-140	0.0465	20	
4,4'-DDE	2.3	0.040	µg/L	2.00		115	40-140	0.741	20	
4,4'-DDE [2C]	2.3	0.040	µg/L	2.00		116	40-140	1.06	20	
4,4'-DDT	2.4	0.040	µg/L	2.00		118	40-140	0.166	20	
4,4'-DDT [2C]	2.3	0.040	µg/L	2.00		116	40-140	0.383	20	
Dieldrin	2.3	0.0020	µg/L	2.00		114	40-140	1.92	20	
Dieldrin [2C]	2.3	0.0020	µg/L	2.00		114	40-140	1.75	20	
Endosulfan I	2.2	0.050	µg/L	2.00		108	40-140	2.15	20	
Endosulfan I [2C]	2.1	0.050	µg/L	2.00		106	40-140	2.08	20	
Endosulfan II	2.1	0.080	µg/L	2.00		103	40-140	1.47	20	
Endosulfan II [2C]	2.0	0.080	µg/L	2.00		101	40-140	0.826	20	
Endosulfan Sulfate	2.0	0.080	µg/L	2.00		102	40-140	0.433	20	
Endosulfan Sulfate [2C]	2.0	0.080	µg/L	2.00		100	40-140	0.993	20	
Endrin	2.3	0.080	µg/L	2.00		114	40-140	1.86	20	
Endrin [2C]	2.2	0.080	µg/L	2.00		110	40-140	1.43	20	
Endrin Aldehyde	2.2	0.080	µg/L	2.00		111	40-140	0.837	20	
Endrin Aldehyde [2C]	2.1	0.080	µg/L	2.00		106	40-140	0.837	20	
Endrin Ketone	2.1	0.080	µg/L	2.00		104	40-140	0.721	20	
Endrin Ketone [2C]	2.0	0.080	µg/L	2.00		100	40-140	0.420	20	
Heptachlor	1.9	0.050	µg/L	2.00		92.5	40-140	2.58	20	
Heptachlor [2C]	1.8	0.050	µg/L	2.00		88.7	40-140	2.99	20	
Heptachlor Epoxide	2.2	0.050	µg/L	2.00		112	40-140	2.28	20	
Heptachlor Epoxide [2C]	2.2	0.050	µg/L	2.00		108	40-140	2.34	20	
Hexachlorobenzene	1.7	0.050	µg/L	2.00		87.3	40-140	2.12	20	
Hexachlorobenzene [2C]	1.7	0.050	µg/L	2.00		84.2	40-140	2.67	20	
Methoxychlor	2.1	0.50	µg/L	2.00		105	40-140	0.139	20	
Methoxychlor [2C]	2.0	0.50	µg/L	2.00		101	40-140	0.177	20	
Surrogate: Decachlorobiphenyl	2.21		µg/L	4.00		55.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.21		µg/L	4.00		55.3	30-150			
Surrogate: Tetrachloro-m-xylene	2.62		µg/L	4.00		65.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.55		µg/L	4.00		63.7	30-150			

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BREAKDOWN REPORT

Lab Sample ID: S088495-PEM1 **Analyzed:** 06/02/2023**Column Number:** 1

Analyte	% Breakdown
4,4'-DDT [1]	3.89
Endrin [1]	10.73

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	4.74
Endrin [2]	12.22

BREAKDOWN REPORT

Lab Sample ID: S088495-PEM2 **Analyzed:** 06/02/2023**Column Number:** 1

Analyte	% Breakdown
4,4'-DDT [1]	2.36
Endrin [1]	4.68

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.04
Endrin [2]	5.58

BREAKDOWN REPORT

Lab Sample ID: S088820-PEM1 **Analyzed:** 06/08/2023**Column Number:** 1

Analyte	% Breakdown
4,4'-DDT [1]	2.41
Endrin [1]	2.84

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BREAKDOWN REPORT

Lab Sample ID: S088820-PEM1 **Analyzed:** 06/08/2023

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	2.26
Endrin [2]	2.23

BREAKDOWN REPORT

Lab Sample ID: S088820-PEM2 **Analyzed:** 06/08/2023

Column Number:	1
Analyte	% Breakdown
4,4'-DDT [1]	1.68
Endrin [1]	2.35

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	1.61
Endrin [2]	1.70

BREAKDOWN REPORT

Lab Sample ID: S088820-PEM3 **Analyzed:** 06/09/2023

Column Number:	1
Analyte	% Breakdown
4,4'-DDT [1]	2.42
Endrin [1]	5.66

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	2.43
Endrin [2]	4.76

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****518014-MW-23***SW-846 8081B*

Lab Sample ID: 23E3537-01 Date(s) Analyzed: 06/02/2023 06/02/2023
Instrument ID (1): ECD2A Instrument ID (2): ECD2B
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Hexachlorobenzene	1	5.513	5.483	5.543	0.047	
	2	5.368	5.340	5.400	0.021	76.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

518014-K-2

Lab Sample ID: 23E3537-07 Date(s) Analyzed: 06/08/2023 06/09/2023
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDT	1	7.647	7.608	7.668	0.053	
	2	7.540	7.510	7.570	0.046	14.1
Chlordane	1	0.000	-0.030	0.030	20	
	2	0.000	-0.030	0.030	25	22.2

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****518014-MW-22***SW-846 8081B*Lab Sample ID: 23E3537-09 Date(s) Analyzed: 06/09/2023 06/09/2023Instrument ID (1): ECD2A Instrument ID (2): ECD2B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Chlordane	1	0.000	-0.030	0.030	13	
	2	0.000	-0.030	0.030	12	8.0

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****518014-MW-17***SW-846 8081B*Lab Sample ID: 23E3537-10 Date(s) Analyzed: 06/08/2023 06/09/2023Instrument ID (1): ECD2A Instrument ID (2): ECD2B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Chlordane	1	0.000	-0.030	0.030	1.2	
	2	0.000	-0.030	0.030	0.55	74.3

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****518014-MW-15S***SW-846 8081B*

Lab Sample ID: 23E3537-12 Date(s) Analyzed: 06/09/2023 06/09/2023
Instrument ID (1): ECD2A Instrument ID (2): ECD2B
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Chlordane	1	0.000	-0.030	0.030	3.6	
	2	0.000	-0.030	0.030	4.7	26.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B341588-BS1 Date(s) Analyzed: 06/02/2023 06/02/2023
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.506	7.475	7.535	2.6	
	2	7.374	7.345	7.405	2.3	12.2
4,4'-DDE	1	7.049	7.019	7.079	2.5	
	2	6.940	6.911	6.971	2.2	12.8
4,4'-DDT	1	7.722	7.691	7.751	2.8	
	2	7.616	7.586	7.646	2.4	15.4
Alachlor	1	6.466	6.437	6.497	2.0	
	2	6.108	6.079	6.139	1.8	10.5
Aldrin	1	6.371	6.340	6.400	1.8	
	2	6.175	6.146	6.206	1.5	18.2
alpha-BHC	1	5.625	5.595	5.655	2.5	
	2	5.456	5.426	5.486	2.3	8.3
alpha-Chlordane	1	6.997	6.967	7.027	2.4	
	2	6.812	6.782	6.842	2.1	13.3
beta-BHC	1	5.891	5.861	5.921	2.4	
	2	5.727	5.698	5.758	2.0	18.2
delta-BHC	1	6.014	5.983	6.043	2.3	
	2	5.917	5.887	5.947	1.9	19.0
Dieldrin	1	7.282	7.252	7.312	2.5	
	2	7.051	7.022	7.082	2.1	17.4
Endosulfan I	1	7.102	7.072	7.132	2.4	
	2	6.851	6.821	6.881	2.0	18.2
Endosulfan II	1	7.633	7.603	7.663	2.3	
	2	7.439	7.410	7.470	2.0	14.0
Endosulfan Sulfate	1	8.268	8.237	8.297	2.1	
	2	7.918	7.888	7.948	2.0	4.9
Endrin	1	7.460	7.430	7.490	2.5	
	2	7.277	7.248	7.308	2.1	17.4
Endrin Aldehyde	1	7.959	7.929	7.989	2.7	
	2	7.701	7.671	7.731	2.3	16.0
Endrin Ketone	1	8.449	8.419	8.479	2.3	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B341588-BS1 Date(s) Analyzed: 06/02/2023 06/02/2023
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.286	8.256	8.316	2.0	14.0
gamma-BHC (Lindane)	1	5.835	5.805	5.865	2.5	
	2	5.675	5.646	5.706	2.2	12.8
gamma-Chlordane	1	6.899	6.868	6.928	2.4	
	2	6.705	6.677	6.737	2.1	13.3
Heptachlor	1	6.158	6.128	6.188	2.0	
	2	5.960	5.931	5.991	1.7	16.2
Heptachlor Epoxide	1	6.809	6.778	6.838	2.5	
	2	6.571	6.541	6.601	2.1	17.4
Hexachlorobenzene	1	5.513	5.483	5.543	1.8	
	2	5.369	5.340	5.400	1.6	11.8
Methoxychlor	1	8.089	8.058	8.118	2.8	
	2	8.143	8.113	8.173	2.3	19.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B341588-BSD1 Date(s) Analyzed: 06/02/2023 06/02/2023
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.506	7.475	7.535	2.4	
	2	7.375	7.345	7.405	2.1	13.3
4,4'-DDE	1	7.050	7.019	7.079	2.2	
	2	6.940	6.911	6.971	1.9	14.6
4,4'-DDT	1	7.723	7.691	7.751	2.6	
	2	7.617	7.586	7.646	2.1	21.3
Alachlor	1	6.467	6.437	6.497	1.6	
	2	6.108	6.079	6.139	1.6	0.0
Aldrin	1	6.371	6.340	6.400	1.5	
	2	6.176	6.146	6.206	1.2	22.2
alpha-BHC	1	5.625	5.595	5.655	2.1	
	2	5.456	5.426	5.486	1.9	10.0
alpha-Chlordane	1	6.997	6.967	7.027	2.1	
	2	6.812	6.782	6.842	1.8	15.4
beta-BHC	1	5.891	5.861	5.921	2.2	
	2	5.728	5.698	5.758	1.7	25.6
delta-BHC	1	6.014	5.983	6.043	2.0	
	2	5.917	5.887	5.947	1.6	22.2
Dieldrin	1	7.282	7.252	7.312	2.2	
	2	7.052	7.022	7.082	1.9	14.6
Endosulfan I	1	7.102	7.072	7.132	2.1	
	2	6.851	6.821	6.881	1.8	15.4
Endosulfan II	1	7.633	7.603	7.663	2.0	
	2	7.440	7.410	7.470	1.8	10.5
Endosulfan Sulfate	1	8.267	8.237	8.297	1.7	
	2	7.918	7.888	7.948	1.7	0.0
Endrin	1	7.461	7.430	7.490	2.3	
	2	7.278	7.248	7.308	1.9	19.0
Endrin Aldehyde	1	7.958	7.929	7.989	2.2	
	2	7.702	7.671	7.731	2.0	9.5
Endrin Ketone	1	8.449	8.419	8.479	2.0	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B341588-BSD1 Date(s) Analyzed: 06/02/2023 06/02/2023
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.286	8.256	8.316	1.7	16.2
gamma-BHC (Lindane)	1	5.835	5.805	5.865	2.2	
	2	5.676	5.646	5.706	1.9	14.6
gamma-Chlordane	1	6.899	6.868	6.928	1.8	
	2	6.706	6.677	6.737	1.8	0.0
Heptachlor	1	6.158	6.128	6.188	1.7	
	2	5.960	5.931	5.991	1.4	19.4
Heptachlor Epoxide	1	6.809	6.778	6.838	1.8	
	2	6.571	6.541	6.601	1.6	11.8
Hexachlorobenzene	1	5.513	5.483	5.543	1.7	
	2	5.369	5.340	5.400	1.5	12.5
Methoxychlor	1	8.088	8.058	8.118	2.7	
	2	8.143	8.113	8.173	2.2	20.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B341714-BS1 Date(s) Analyzed: 06/09/2023 06/09/2023
 Instrument ID (1): ECD2 Instrument ID (2): ECD2
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.417	7.390	7.450	2.4	
	2	7.297	7.268	7.328	2.3	4.3
4,4'-DDE	1	6.966	6.938	6.998	2.2	
	2	6.866	6.837	6.897	2.2	4.4
4,4'-DDT	1	7.632	7.605	7.665	2.3	
	2	7.538	7.508	7.568	2.3	0.0
Alachlor	1	6.391	6.362	6.422	1.8	
	2	6.044	6.015	6.075	1.8	0.0
Aldrin	1	6.294	6.266	6.326	1.6	
	2	6.108	6.078	6.138	1.5	6.5
alpha-BHC	1	5.561	5.532	5.592	2.3	
	2	5.401	5.371	5.431	2.1	9.1
alpha-Chlordane	1	6.913	6.885	6.945	2.1	
	2	6.737	6.708	6.768	2.1	0.0
beta-BHC	1	5.823	5.794	5.854	2.1	
	2	5.668	5.639	5.699	2.0	4.9
delta-BHC	1	5.943	5.915	5.975	2.0	
	2	5.854	5.825	5.885	1.9	5.1
Dieldrin	1	7.194	7.167	7.227	2.2	
	2	6.974	6.946	7.006	2.2	0.0
Endosulfan I	1	7.016	6.988	7.048	2.1	
	2	6.775	6.746	6.806	2.0	4.9
Endosulfan II	1	7.542	7.514	7.574	2.0	
	2	7.359	7.330	7.390	1.9	5.1
Endosulfan Sulfate	1	8.185	8.158	8.218	2.0	
	2	7.837	7.809	7.869	1.9	5.1
Endrin	1	7.370	7.343	7.403	2.2	
	2	7.197	7.168	7.228	2.1	4.7
Endrin Aldehyde	1	7.868	7.841	7.901	2.1	
	2	7.620	7.590	7.650	2.0	4.9
Endrin Ketone	1	8.370	8.342	8.402	2.0	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B341714-BS1 Date(s) Analyzed: 06/09/2023 06/09/2023
 Instrument ID (1): ECD2 Instrument ID (2): ECD2
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.215	8.186	8.246	1.9	5.1
gamma-BHC (Lindane)	1	5.767	5.739	5.799	2.2	
	2	5.616	5.587	5.647	2.1	4.7
gamma-Chlordane	1	6.815	6.788	6.848	2.1	
	2	6.632	6.603	6.663	2.1	0.0
Heptachlor	1	6.085	6.057	6.117	1.8	
	2	5.896	5.867	5.927	1.7	5.7
Heptachlor Epoxide	1	6.726	6.698	6.758	2.1	
	2	6.498	6.469	6.529	2.0	4.9
Hexachlorobenzene	1	5.450	5.422	5.482	1.8	
	2	5.315	5.285	5.345	1.6	11.8
Methoxychlor	1	8.006	7.978	8.038	2.1	
	2	8.073	8.044	8.104	2.0	4.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B341714-BSD1 Date(s) Analyzed: 06/08/2023 06/08/2023
 Instrument ID (1): ECD2 Instrument ID (2): ECD2
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.423	7.393	7.453	2.3	
	2	7.299	7.269	7.329	2.2	4.4
4,4'-DDE	1	6.971	6.941	7.001	2.1	
	2	6.867	6.837	6.897	2.1	4.7
4,4'-DDT	1	7.638	7.608	7.668	2.2	
	2	7.539	7.510	7.570	2.1	4.7
Alachlor	1	6.395	6.365	6.425	1.8	
	2	6.045	6.015	6.075	1.7	5.7
Aldrin	1	6.298	6.268	6.328	1.7	
	2	6.108	6.079	6.139	1.7	0.0
alpha-BHC	1	5.564	5.534	5.594	2.3	
	2	5.401	5.372	5.432	2.3	4.3
alpha-Chlordane	1	6.917	6.888	6.948	2.0	
	2	6.738	6.709	6.769	2.1	4.9
beta-BHC	1	5.826	5.796	5.856	2.1	
	2	5.669	5.639	5.699	1.9	10.0
delta-BHC	1	5.946	5.917	5.977	1.9	
	2	5.855	5.826	5.886	1.9	0.0
Dieldrin	1	7.199	7.169	7.229	2.1	
	2	6.975	6.946	7.006	2.1	0.0
Endosulfan I	1	7.020	6.991	7.051	2.0	
	2	6.776	6.746	6.806	2.0	0.0
Endosulfan II	1	7.547	7.517	7.577	1.9	
	2	7.360	7.330	7.390	1.9	0.0
Endosulfan Sulfate	1	8.191	8.161	8.221	1.8	
	2	7.838	7.809	7.869	1.8	0.0
Endrin	1	7.376	7.346	7.406	2.1	
	2	7.200	7.169	7.229	2.0	4.9
Endrin Aldehyde	1	7.874	7.844	7.904	2.0	
	2	7.620	7.591	7.651	1.9	5.1
Endrin Ketone	1	8.375	8.345	8.405	1.9	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B341714-BSD1 Date(s) Analyzed: 06/08/2023 06/08/2023
 Instrument ID (1): ECD2 Instrument ID (2): ECD2
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.216	8.187	8.247	1.8	5.4
gamma-BHC (Lindane)	1	5.770	5.741	5.801	2.3	
	2	5.617	5.588	5.648	2.2	4.4
gamma-Chlordane	1	6.819	6.790	6.850	2.1	
	2	6.633	6.603	6.663	2.1	0.0
Heptachlor	1	6.089	6.060	6.120	1.9	
	2	5.897	5.868	5.928	1.8	5.4
Heptachlor Epoxide	1	6.731	6.701	6.761	2.1	
	2	6.499	6.470	6.530	2.0	4.9
Hexachlorobenzene	1	5.453	5.424	5.484	1.9	
	2	5.315	5.286	5.346	1.8	5.4
Methoxychlor	1	8.011	7.981	8.041	1.9	
	2	8.074	8.045	8.105	1.8	5.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B341714-MS1 Date(s) Analyzed: 06/09/2023 06/09/2023
 Instrument ID (1): ECD2 Instrument ID (2): ECD2
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.418	7.391	7.451	1.9	
	2	7.297	7.269	7.329	1.8	5.4
4,4'-DDE	1	6.967	6.940	7.000	1.9	
	2	6.866	6.837	6.897	1.7	11.1
4,4'-DDT	1	7.634	7.607	7.667	1.9	
	2	7.538	7.510	7.570	1.7	11.1
Alachlor	1	6.389	6.364	6.424	7.1	
	2	6.044	6.015	6.075	3.4	70.5
Aldrin	1	6.295	6.267	6.327	1.6	
	2	6.108	6.079	6.139	1.4	13.3
alpha-BHC	1	5.561	5.533	5.593	1.7	
	2	5.401	5.371	5.431	1.6	6.1
beta-BHC	1	5.823	5.796	5.856	1.7	
	2	5.669	5.639	5.699	1.8	5.7
delta-BHC	1	5.943	5.916	5.976	1.6	
	2	5.855	5.825	5.885	1.5	6.5
Dieldrin	1	7.195	7.168	7.228	1.9	
	2	6.975	6.946	7.006	1.9	0.0
Endosulfan I	1	7.016	6.989	7.049	1.9	
	2	6.775	6.746	6.806	1.8	5.4
Endosulfan II	1	7.542	7.516	7.576	1.8	
	2	7.359	7.331	7.391	1.7	5.7
Endosulfan Sulfate	1	8.186	8.159	8.219	1.8	
	2	7.838	7.809	7.869	1.7	5.7
Endrin	1	7.371	7.345	7.405	2.0	
	2	7.199	7.170	7.230	1.9	5.1
Endrin Aldehyde	1	7.869	7.843	7.903	1.9	
	2	7.620	7.592	7.652	1.9	0.0
Endrin Ketone	1	8.371	8.344	8.404	1.8	
	2	8.216	8.187	8.247	1.8	0.0
gamma-BHC (Lindane)	1	5.767	5.740	5.800	1.7	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B341714-MS1 Date(s) Analyzed: 06/09/2023 06/09/2023
 Instrument ID (1): ECD2 Instrument ID (2): ECD2
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.617	5.587	5.647	1.7	0.0
Heptachlor	1	6.086	6.058	6.118	1.7	
	2	5.897	5.867	5.927	1.7	0.0
Heptachlor Epoxide	1	6.726	6.699	6.759	2.0	
	2	6.499	6.470	6.530	1.8	10.5
Hexachlorobenzene	1	5.450	5.423	5.483	1.4	
	2	5.316	5.286	5.346	1.4	0.0
Methoxychlor	1	8.007	7.979	8.039	2.0	
	2	8.074	8.045	8.105	1.9	5.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B341714-MSD1 Date(s) Analyzed: 06/09/2023 06/09/2023
 Instrument ID (1): ECD2 Instrument ID (2): ECD2
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.418	7.391	7.451	1.7	
	2	7.298	7.269	7.329	1.8	5.7
4,4'-DDE	1	6.967	6.940	7.000	1.7	
	2	6.866	6.837	6.897	1.6	6.1
4,4'-DDT	1	7.633	7.607	7.667	1.7	
	2	7.537	7.510	7.570	1.7	0.0
Alachlor	1	6.390	6.364	6.424	6.6	
	2	6.044	6.015	6.075	3.3	66.7
Aldrin	1	6.295	6.267	6.327	1.5	
	2	6.108	6.079	6.139	1.4	6.9
alpha-BHC	1	5.561	5.533	5.593	1.5	
	2	5.401	5.371	5.431	1.5	0.0
beta-BHC	1	5.823	5.796	5.856	1.6	
	2	5.670	5.639	5.699	1.7	6.1
delta-BHC	1	5.943	5.916	5.976	1.5	
	2	5.855	5.825	5.885	1.4	6.9
Dieldrin	1	7.195	7.168	7.228	1.7	
	2	6.975	6.946	7.006	1.8	5.7
Endosulfan I	1	7.017	6.989	7.049	1.7	
	2	6.775	6.746	6.806	1.7	0.0
Endosulfan II	1	7.543	7.516	7.576	1.7	
	2	7.359	7.331	7.391	1.7	0.0
Endosulfan Sulfate	1	8.186	8.159	8.219	1.7	
	2	7.838	7.809	7.869	1.7	0.0
Endrin	1	7.371	7.345	7.405	1.9	
	2	7.198	7.170	7.230	1.8	5.4
Endrin Aldehyde	1	7.870	7.843	7.903	1.8	
	2	7.619	7.592	7.652	1.8	0.0
Endrin Ketone	1	8.371	8.344	8.404	1.7	
	2	8.215	8.187	8.247	1.8	5.7
gamma-BHC (Lindane)	1	5.768	5.740	5.800	1.5	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B341714-MSD1 Date(s) Analyzed: 06/09/2023 06/09/2023
 Instrument ID (1): ECD2 Instrument ID (2): ECD2
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.617	5.587	5.647	1.5	0.0
Heptachlor	1	6.086	6.058	6.118	1.6	
	2	5.897	5.867	5.927	1.6	0.0
Heptachlor Epoxide	1	6.727	6.699	6.759	1.8	
	2	6.499	6.470	6.530	1.7	5.7
Hexachlorobenzene	1	5.451	5.423	5.483	1.3	
	2	5.315	5.286	5.346	1.2	8.0
Methoxychlor	1	8.006	7.979	8.039	1.8	
	2	8.074	8.045	8.105	1.9	5.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B342802-BS1 Date(s) Analyzed: 06/08/2023 06/08/2023
 Instrument ID (1): ECD2 Instrument ID (2): ECD2
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.423	7.393	7.453	2.4	
	2	7.298	7.269	7.329	2.4	0.0
4,4'-DDE	1	6.970	6.941	7.001	2.3	
	2	6.867	6.837	6.897	2.3	0.0
4,4'-DDT	1	7.638	7.608	7.668	2.4	
	2	7.538	7.510	7.570	2.3	4.3
Alachlor	1	6.395	6.365	6.425	2.0	
	2	6.045	6.015	6.075	1.9	5.1
Aldrin	1	6.298	6.268	6.328	1.6	
	2	6.109	6.079	6.139	1.6	0.0
alpha-BHC	1	5.564	5.534	5.594	2.5	
	2	5.401	5.372	5.432	2.4	4.1
alpha-Chlordane	1	6.917	6.888	6.948	2.2	
	2	6.738	6.709	6.769	2.2	0.0
beta-BHC	1	5.826	5.796	5.856	2.2	
	2	5.669	5.639	5.699	2.2	0.0
delta-BHC	1	5.947	5.917	5.977	2.1	
	2	5.855	5.826	5.886	2.1	0.0
Dieldrin	1	7.200	7.169	7.229	2.2	
	2	6.976	6.946	7.006	2.2	0.0
Endosulfan I	1	7.021	6.991	7.051	2.1	
	2	6.776	6.746	6.806	2.1	0.0
Endosulfan II	1	7.548	7.517	7.577	2.0	
	2	7.360	7.330	7.390	2.0	0.0
Endosulfan Sulfate	1	8.191	8.161	8.221	2.0	
	2	7.839	7.809	7.869	2.0	0.0
Endrin	1	7.375	7.346	7.406	2.2	
	2	7.199	7.169	7.229	2.2	0.0
Endrin Aldehyde	1	7.875	7.844	7.904	2.2	
	2	7.620	7.591	7.651	2.1	4.7
Endrin Ketone	1	8.375	8.345	8.405	2.1	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B342802-BS1 Date(s) Analyzed: 06/08/2023 06/08/2023
 Instrument ID (1): ECD2 Instrument ID (2): ECD2
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.217	8.187	8.247	2.0	4.9
gamma-BHC (Lindane)	1	5.771	5.741	5.801	2.4	
	2	5.617	5.588	5.648	2.3	4.3
gamma-Chlordane	1	6.820	6.790	6.850	2.2	
	2	6.634	6.603	6.663	2.3	4.4
Heptachlor	1	6.089	6.060	6.120	1.8	
	2	5.897	5.868	5.928	1.7	5.7
Heptachlor Epoxide	1	6.730	6.701	6.761	2.2	
	2	6.499	6.470	6.530	2.1	4.7
Hexachlorobenzene	1	5.453	5.424	5.484	1.7	
	2	5.316	5.286	5.346	1.6	6.1
Methoxychlor	1	8.012	7.981	8.041	2.1	
	2	8.075	8.045	8.105	2.0	4.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B342802-BSD1 Date(s) Analyzed: 06/08/2023 06/08/2023
 Instrument ID (1): ECD2 Instrument ID (2): ECD2
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.422	7.393	7.453	2.4	
	2	7.299	7.269	7.329	2.4	0.0
4,4'-DDE	1	6.971	6.941	7.001	2.3	
	2	6.867	6.837	6.897	2.3	0.0
4,4'-DDT	1	7.638	7.608	7.668	2.4	
	2	7.539	7.510	7.570	2.3	4.3
Alachlor	1	6.394	6.365	6.425	2.0	
	2	6.046	6.015	6.075	1.9	5.1
Aldrin	1	6.298	6.268	6.328	1.6	
	2	6.109	6.079	6.139	1.6	0.0
alpha-BHC	1	5.564	5.534	5.594	2.5	
	2	5.402	5.372	5.432	2.4	4.1
alpha-Chlordane	1	6.918	6.888	6.948	2.2	
	2	6.739	6.709	6.769	2.3	4.4
beta-BHC	1	5.826	5.796	5.856	2.3	
	2	5.669	5.639	5.699	2.2	4.4
delta-BHC	1	5.946	5.917	5.977	2.2	
	2	5.855	5.826	5.886	2.1	4.7
Dieldrin	1	7.199	7.169	7.229	2.3	
	2	6.976	6.946	7.006	2.3	0.0
Endosulfan I	1	7.021	6.991	7.051	2.2	
	2	6.777	6.746	6.806	2.1	4.7
Endosulfan II	1	7.546	7.517	7.577	2.1	
	2	7.360	7.330	7.390	2.0	4.9
Endosulfan Sulfate	1	8.191	8.161	8.221	2.0	
	2	7.839	7.809	7.869	2.0	0.0
Endrin	1	7.376	7.346	7.406	2.3	
	2	7.200	7.169	7.229	2.2	4.4
Endrin Aldehyde	1	7.874	7.844	7.904	2.2	
	2	7.621	7.591	7.651	2.1	4.7
Endrin Ketone	1	8.375	8.345	8.405	2.1	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B342802-BSD1 Date(s) Analyzed: 06/08/2023 06/08/2023
 Instrument ID (1): ECD2 Instrument ID (2): ECD2
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.217	8.187	8.247	2.0	4.9
gamma-BHC (Lindane)	1	5.771	5.741	5.801	2.5	
	2	5.617	5.588	5.648	2.4	4.1
gamma-Chlordane	1	6.820	6.790	6.850	2.3	
	2	6.634	6.603	6.663	2.3	0.0
Heptachlor	1	6.089	6.060	6.120	1.9	
	2	5.898	5.868	5.928	1.8	5.4
Heptachlor Epoxide	1	6.731	6.701	6.761	2.2	
	2	6.500	6.470	6.530	2.2	0.0
Hexachlorobenzene	1	5.453	5.424	5.484	1.7	
	2	5.316	5.286	5.346	1.7	5.7
Methoxychlor	1	8.012	7.981	8.041	2.1	
	2	8.075	8.045	8.105	2.0	4.9

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-15	Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
MS-23	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
P-02	Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
RL-11	Elevated reporting limit due to high concentration of target compounds.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-35	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8081B in Water</i>	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
<i>SW-846 8260D in Water</i>	
Acetone	CT,ME,NH,VA,NY

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260D in Water</i>	
Benzene	CT,ME,NH,VA,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
Cyclohexane	ME,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260D in Water</i>	
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
Xylenes (total)	ME,NY
<i>SW-846 8270E in Soil</i>	
1,4-Dioxane	NY,NH
<i>SW-846 8270E in Water</i>	
1,4-Dioxane	NY,NH
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-chloroisopropyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NC	North Carolina Div. of Water Quality	652	12/31/2023
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2023

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East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.pacelabs.com

ENV-FRM-ELON-0001 V05__Sample Receiving Checklist

Log In Back-Sheet

Login Sample Receipt Checklist - (Rejection Criteria Listing
- Using Acceptance Policy) Any False statement will be
brought to the attention of the Client - True or False

Client EA EngineeringProject KarkeyMCP/RCP Required NoDeliverable Package Requirement NoLocation NYPWSID# (When Applicable) NA

Arrival Method:

 Courier ☒ Fed Ex ☐ Walk In ☐ Other ☐
Received By / Date / Time GR 5/25/23 1700Back Sheet By / Date / Time GR 5/25/23 2233Temperature Method gun # 5Temp ☒ < 6° C Actual Temperature 5.8, 4.6, 2.9, 3.7, 4.2, 5.1Rush Samples: Yes / ☒ No Notify 3.9, 4.9, 2.1, 2.1, 5.5, 3.8Short Hold: Yes / ☒ No Notify

Notes regarding Samples/COC outside of SOP:

	True	False
Received on Ice	☒	☐
Received in Cooler	☒	☐
Custody Seal: DATE <u>5/24/23</u> TIME	☒	☐
COC Relinquished	☒	☐
COC/Samples Labels Agree	☒	☐
All Samples in Good Condition	☒	☐
Samples Received within Holding Time	☒	☐
Is there enough Volume	☒	☐
Proper Media/Container Used	☒	☐
Splitting Samples Required	☒	☒
MS/MSD	☒	☐
Trip Blanks	☐	☒
Lab to Filters	☐	☒
COC Legible	☒	☐

COC Included: (Check all included)

 Client ☒ Analysis ☐ Sampler Name ☒
 Project ☒ IDs ☐ Collection Date/Time ☐
All Samples Proper pH: N/A ☐ ☐

Additional Container Notes

Sample	Soils Jars				Ambers						Plastics						VOA Vials					Other / Fill in									
	(Circle Amb/Clear)				1 Liter		250mL		100mL	1 Liter		500mL	250mL					Unpreserved	HCl	MeOH	D.I. Water	BiSulfate									
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Sulfuric	Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric	Nitric	NaOH	NaOH/Zinc	Unpreserved	HCl	MeOH	D.I. Water	BiSulfate	Col/Bact					
1					2																	2									
2					2																	2									
3					2																	2									
4					2																	2									
5					2																	2									
6					2																	2									
7					2																	2									
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18					2																	2									
19																															
20																															

June 15, 2023

Joshua Oliver
NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202

Project Location: Broadalbin, NY
Client Job Number:
Project Number: 518014
Laboratory Work Order Number: 23E3538

Enclosed are results of analyses for samples as received by the laboratory on May 25, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle K. Stuckey
Project Manager

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NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202
ATTN: Joshua Oliver

REPORT DATE: 6/15/2023

PURCHASE ORDER NUMBER: 141733

PROJECT NUMBER: 518014

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23E3538

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Broadalbin, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
518014-MW-19	23E3538-01	Ground Water		SW-846 8081B SW-846 8260D SW-846 8270E	
518014-MW-16D	23E3538-02	Ground Water		SW-846 8081B SW-846 8260D SW-846 8270E	
518014-MW-15D	23E3538-03	Ground Water		SW-846 8081B SW-846 8260D SW-846 8270E	
518014-SW-02	23E3538-04	Surface Water		SW-846 8081B SW-846 8260D SW-846 8270E	
518014-SD-02	23E3538-05	Soil		Lloyd Kahn Method SM 2540G SW-846 8081B SW-846 8260D SW-846 8270E	
518014-SW-01	23E3538-06	Surface Water		SW-846 8081B SW-846 8260D SW-846 8270E	
518014-SD-01	23E3538-07	Soil		Lloyd Kahn Method SM 2540G SW-846 8081B SW-846 8260D SW-846 8270E	
518014-FD-01-SW	23E3538-08	Surface Water		SW-846 8081B SW-846 8260D SW-846 8270E	
518014-FD-01-SD	23E3538-09	Soil		Lloyd Kahn Method SM 2540G SW-846 8081B SW-846 8260D SW-846 8270E	
518014-SW-03	23E3538-10	Surface Water		SW-846 8081B SW-846 8260D SW-846 8270E	
518014-SD-03	23E3538-11	Soil		Lloyd Kahn Method SM 2540G SW-846 8081B SW-846 8260D SW-846 8270E	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

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Lloyd Kahn Method**Qualifications:****MS-07**

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**Total Organic Carbon**

23E3538-05[518014-SD-02], B342006-MS1, B342006-MSD1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**Total Organic Carbon**

B342006-BSD1

SM 2540G**Qualifications:****H-06**

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:**% Solids**

23E3538-05[518014-SD-02], 23E3538-07[518014-SD-01], 23E3538-09[518014-FD-01-SD], 23E3538-11[518014-SD-03]

SW-846 8081B**Qualifications:****DL-03**

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

23E3538-11[518014-SD-03]

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

23E3538-07RE1[518014-SD-01]

MS-23

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:**Endosulfan Sulfate**

B342469-MSD1

Endosulfan Sulfate [2C]

B342469-MSD1

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:**Endosulfan Sulfate**

23E3538-05[518014-SD-02], B342469-MS1

Endosulfan Sulfate [2C]

23E3538-05[518014-SD-02], B342469-MS1

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S-10

Sample was re-extracted outside of holding time since surrogate standard recovery was outside of control limits. Data from analysis performed outside of holding time is also reported since surrogate recovery is acceptable.

Analyte & Samples(s) Qualified:**Decachlorobiphenyl**

23E3538-07[518014-SD-01]

Decachlorobiphenyl [2C]

23E3538-07[518014-SD-01]

Tetrachloro-m-xylene

23E3538-07[518014-SD-01]

Tetrachloro-m-xylene [2C]

23E3538-07[518014-SD-01]

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**Methoxychlor [2C]**

B342941-BLK1, B342941-BS1, B342941-BSD1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:**alpha-BHC**

B342469-BS1, B342469-BSD1, B342469-MS1, B342469-MSD1

alpha-BHC [2C]

B342469-BS1, B342469-BSD1, B342469-MS1, B342469-MSD1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**alpha-BHC**

23E3538-05[518014-SD-02], 23E3538-07[518014-SD-01], 23E3538-09[518014-FD-01-SD], 23E3538-11[518014-SD-03]

alpha-BHC [2C]

23E3538-05[518014-SD-02], 23E3538-07[518014-SD-01], 23E3538-09[518014-FD-01-SD], 23E3538-11[518014-SD-03]

SW-846 8260D**Qualifications:**

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:**Bromomethane**

B341940-BS1, B341940-BSD1, B342085-BS1, B342085-BSD1

Chloroethane

B341940-BS1, B341940-BSD1, B342085-BS1, B342085-BSD1

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**Chloromethane**

23E3538-05[518014-SD-02], 23E3538-07[518014-SD-01], 23E3538-09[518014-FD-01-SD], 23E3538-11[518014-SD-03], B341940-BLK1, B341940-BS1, B341940-BSD1, B342085-BLK1, B342085-BS1, B342085-BSD1, B342085-MS1, B342085-MSD1

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**1,2-Dibromo-3-chloropropane (DBCP)**

23E3538-04[518014-SW-02], B341916-MS1, B341916-MSD1

Bromoform

23E3538-04[518014-SW-02], B341916-MS1, B341916-MSD1

Methyl Acetate

23E3538-04[518014-SW-02], B341916-MS1, B341916-MSD1

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MS-07A2

Matrix spike and spike duplicate recovery is outside of control limits on the low side.

Analyte & Samples(s) Qualified:**Chloromethane**

23E3538-05[518014-SD-02], B342085-MS1, B342085-MSD1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:**Chloroethane**

B342085-MS1

MS-24

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

Analyte & Samples(s) Qualified:**1,1,2,2-Tetrachloroethane**

B342085-MS1

tert-Butyl Alcohol (TBA)

B342085-MSD1

trans-1,3-Dichloropropene

B341916-MSD1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**1,2-Dibromo-3-chloropropane (DBCP)**

23E3538-01[518014-MW-19], 23E3538-02[518014-MW-16D], 23E3538-03[518014-MW-15D], 23E3538-04[518014-SW-02], 23E3538-06[518014-SW-01], 23E3538-08[518014-FD-01-SW], 23E3538-10[518014-SW-03], B341916-BLK1, B341916-BS1, B341916-BSD1, B341916-MS1, B341916-MSD1, S088490-CCV1

Bromoform

23E3538-01[518014-MW-19], 23E3538-02[518014-MW-16D], 23E3538-03[518014-MW-15D], 23E3538-04[518014-SW-02], 23E3538-06[518014-SW-01], 23E3538-08[518014-FD-01-SW], 23E3538-10[518014-SW-03], B341916-BLK1, B341916-BS1, B341916-BSD1, B341916-MS1, B341916-MSD1, S088490-CCV1

Chloromethane

23E3538-05[518014-SD-02], 23E3538-07[518014-SD-01], 23E3538-09[518014-FD-01-SD], 23E3538-11[518014-SD-03], B341940-BLK1, B341940-BS1, B341940-BSD1, B342085-BLK1, B342085-BS1, B342085-BSD1, B342085-MS1, B342085-MSD1, S088422-CCV1, S088485-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**1,1,2,2-Tetrachloroethane**

B342085-BS1, B342085-BSD1, B342085-MS1, B342085-MSD1, S088485-CCV1

Bromobenzene

B341940-BS1, B341940-BSD1, B342085-BS1, B342085-BSD1, B342085-MS1, B342085-MSD1, S088422-CCV1, S088485-CCV1

Bromomethane

B341940-BS1, B341940-BSD1, B342085-BS1, B342085-BSD1, B342085-MS1, B342085-MSD1, S088422-CCV1, S088485-CCV1

Chloroethane

B341940-BS1, B341940-BSD1, B342085-BS1, B342085-BSD1, B342085-MS1, B342085-MSD1, S088422-CCV1, S088485-CCV1

V-35

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Carbon Disulfide**

B341940-BS1, B341940-BSD1, B342085-BS1, B342085-BSD1, B342085-MS1, B342085-MSD1, S088422-CCV1, S088485-CCV1

Dichlorodifluoromethane (Freon 12)

B341940-BS1, B341940-BSD1, B342085-BS1, B342085-BSD1, B342085-MS1, B342085-MSD1, S088422-CCV1, S088485-CCV1

SW-846 8270E**Qualifications:**

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B

Analyte is found in the associated laboratory blank as well as in the sample.

Analyte & Samples(s) Qualified:**Hexachlorobutadiene**

23E3538-08[518014-FD-01-SW]

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**Caprolactam**

23E3538-01[518014-MW-19], 23E3538-02[518014-MW-16D], 23E3538-03[518014-MW-15D], 23E3538-04[518014-SW-02], 23E3538-06[518014-SW-01], 23E3538-08[518014-FD-01-SW], 23E3538-10[518014-SW-03], B341710-BLK1, B341710-BS1, B341710-BSD1, B341819-BLK1, B341819-BS1, B341819-BSD1, B341823-BLK1, B341823-BS1, B341823-BSD1

Hexachlorobutadiene

23E3538-03[518014-MW-15D], 23E3538-04[518014-SW-02], 23E3538-06[518014-SW-01], 23E3538-10[518014-SW-03], B341819-BLK1, B341819-BS1, B341819-BSD1, B341823-BLK1, B341823-BS1, B341823-BSD1

Hexachlorocyclopentadiene

23E3538-03[518014-MW-15D], 23E3538-04[518014-SW-02], 23E3538-06[518014-SW-01], 23E3538-10[518014-SW-03], B341819-BLK1, B341819-BS1, B341819-BSD1

Hexachloroethane

23E3538-01[518014-MW-19], 23E3538-02[518014-MW-16D], 23E3538-03[518014-MW-15D], 23E3538-04[518014-SW-02], 23E3538-06[518014-SW-01], 23E3538-08[518014-FD-01-SW], 23E3538-10[518014-SW-03], B341710-BLK1, B341710-BS1, B341710-BSD1, B341819-BLK1, B341819-BS1, B341819-BSD1, B341823-BLK1, B341823-BS1, B341823-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**Hexachlorocyclopentadiene**

B341823-BSD1

L-07A

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

B341823-BS1

4,6-Dinitro-2-methylphenol

B341823-BS1

4-Nitrophenol

B341823-BS1

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.

Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**Benzidine**

23E3538-05[518014-SD-02], B342397-MS1, B342397-MSD1

Hexachlorocyclopentadiene

23E3538-05[518014-SD-02], B342397-MS1, B342397-MSD1

Pyridine

23E3538-05[518014-SD-02], B342397-MS1, B342397-MSD1

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:**Caprolactam**

23E3538-04[518014-SW-02], B341819-MS1, B341819-MSD1

Hexachlorobutadiene

23E3538-04[518014-SW-02], B341819-MS1, B341819-MSD1

Hexachloroethane

23E3538-04[518014-SW-02], B341819-MS1, B341819-MSD1

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MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:**Aniline**

B342397-MSD1

Hexachlorocyclopentadiene

B341819-MS1

MS-23

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

B341819-MSD1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

B341823-BSD1

4,6-Dinitro-2-methylphenol

B341823-BSD1

4-Nitrophenol

B341823-BSD1

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

B341819-MS1

3/4-Methylphenol

23E3538-05[518014-SD-02]

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:**2,4-Dinitrophenol**

23E3538-01[518014-MW-19], 23E3538-02[518014-MW-16D], 23E3538-03[518014-MW-15D], 23E3538-06[518014-SW-01], 23E3538-08[518014-FD-01-SW], 23E3538-10[518014-SW-03], B341823-BLK1, B341823-BS1, B341823-BSD1, S089016-CCV1, S089061-CCV1, S089077-CCV1

4,6-Dinitro-2-methylphenol

23E3538-01[518014-MW-19], 23E3538-02[518014-MW-16D], 23E3538-03[518014-MW-15D], 23E3538-06[518014-SW-01], 23E3538-08[518014-FD-01-SW], 23E3538-10[518014-SW-03], B341823-BLK1, B341823-BS1, B341823-BSD1, S089016-CCV1, S089061-CCV1, S089077-CCV1

Bis(2-Ethylhexyl)phthalate

23E3538-01[518014-MW-19], 23E3538-02[518014-MW-16D], 23E3538-03[518014-MW-15D], 23E3538-06[518014-SW-01], 23E3538-08[518014-FD-01-SW], 23E3538-10[518014-SW-03], B341823-BLK1, B341823-BS1, B341823-BSD1, S089016-CCV1, S089061-CCV1, S089077-CCV1

Di-n-octylphthalate

23E3538-01[518014-MW-19], 23E3538-02[518014-MW-16D], 23E3538-03[518014-MW-15D], 23E3538-06[518014-SW-01], 23E3538-08[518014-FD-01-SW], 23E3538-10[518014-SW-03], B341823-BLK1, B341823-BS1, B341823-BSD1, S089016-CCV1, S089061-CCV1, S089077-CCV1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**Benzidine**

23E3538-05[518014-SD-02], 23E3538-07[518014-SD-01], 23E3538-09[518014-FD-01-SD], 23E3538-11[518014-SD-03], B342397-BLK1, B342397-BS1, B342397-BSD1, B342397-MS1, S088722-CCV1

Butylbenzylphthalate

23E3538-04[518014-SW-02], B341710-BLK1, B341710-BS1, B341710-BSD1, B341819-BLK1, B341819-BS1, B341819-BSD1, B341819-MS1, B341819-MSD1, S088808-CCV1

Di-n-octylphthalate

23E3538-04[518014-SW-02], B341710-BLK1, B341710-BS1, B341710-BSD1, B341819-BLK1, B341819-BS1, B341819-BSD1, B341819-MS1, B341819-MSD1, S088808-CCV1

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V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:**2-Nitroaniline**

B342397-BLK1, B342397-BS1, B342397-BSD1, S088722-CCV1

Bis(2-chloroisopropyl)ether

B342397-BLK1, B342397-BS1, B342397-BSD1, S088722-CCV1

N-Nitrosodimethylamine

B342397-BLK1, B342397-BS1, B342397-BSD1, S088722-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**3-Nitroaniline**

23E3538-04[518014-SW-02], B341710-BLK1, B341710-BS1, B341710-BSD1, B341819-BLK1, B341819-BS1, B341819-BSD1, B341819-MS1, B341819-MSD1, S088808-CCV1

4-Nitroaniline

23E3538-04[518014-SW-02], B341710-BLK1, B341710-BS1, B341710-BSD1, B341819-BLK1, B341819-BS1, B341819-BSD1, B341819-MS1, B341819-MSD1, S088808-CCV1

V-35

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Benzidine**

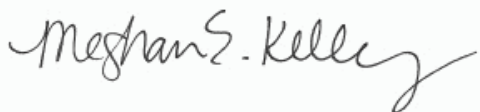
23E3538-05[518014-SD-02], 23E3538-07[518014-SD-01], 23E3538-09[518014-FD-01-SD], 23E3538-11[518014-SD-03], B342397-BLK1, B342397-BS1, B342397-BSD1, B342397-MS1, B342397-MSD1, S086760-ICV1, S088722-CCV1

Butylbenzylphthalate

23E3538-01[518014-MW-19], 23E3538-02[518014-MW-16D], 23E3538-03[518014-MW-15D], 23E3538-06[518014-SW-01], 23E3538-08[518014-FD-01-SW], 23E3538-10[518014-SW-03], B341823-BLK1, B341823-BS1, B341823-BSD1, S089016-CCV1, S089061-CCV1, S089077-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-MW-19

Sampled: 5/23/2023 17:50

Sample ID: 23E3538-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Bromoform	ND	1.0	0.41	µg/L	1	V-05	SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/1/23	6/3/23 2:25	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
1,2-Dichlorobenzene	0.33	1.0	0.13	µg/L	1	J	SW-846 8260D	6/1/23	6/3/23 2:25	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
1,1-Dichloroethane	0.28	1.0	0.14	µg/L	1	J	SW-846 8260D	6/1/23	6/3/23 2:25	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-MW-19

Sampled: 5/23/2023 17:50

Sample ID: 23E3538-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:25	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	
Toluene-d8	98.9	70-130	
4-Bromofluorobenzene	90.5	70-130	

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-MW-19

Sampled: 5/23/2023 17:50

Sample ID: 23E3538-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	19	1.5	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Benzaldehyde	ND	9.3	0.67	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Biphenyl	ND	19	0.85	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Caprolactam	ND	9.3	0.66	µg/L	1	L-04	SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Acenaphthene	ND	4.6	0.73	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Acenaphthylene	ND	4.6	0.59	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Acetophenone	ND	9.3	0.46	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Anthracene	ND	4.6	0.50	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Benzo(a)anthracene	ND	4.6	0.35	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Benzo(a)pyrene	ND	4.6	0.40	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Benzo(b)fluoranthene	ND	4.6	0.30	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Benzo(g,h,i)perylene	ND	4.6	0.48	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Benzo(k)fluoranthene	ND	4.6	0.42	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Bis(2-chloroethoxy)methane	ND	9.3	0.53	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Bis(2-chloroethyl)ether	ND	9.3	0.42	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Bis(2-chloroisopropyl)ether	ND	9.3	0.69	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.3	0.30	µg/L	1	V-04	SW-846 8270E	5/30/23	6/13/23 0:39	BGL
4-Bromophenylphenylether	ND	9.3	0.66	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Butylbenzylphthalate	ND	9.3	0.37	µg/L	1	V-35	SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Carbazole	ND	9.3	0.42	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
4-Chloroaniline	ND	9.3	4.8	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
4-Chloro-3-methylphenol	ND	9.3	0.59	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
2-Chloronaphthalene	ND	9.3	0.75	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
2-Chlorophenol	ND	9.3	0.38	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
4-Chlorophenylphenylether	ND	9.3	0.81	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Chrysene	ND	4.6	0.42	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Dibenz(a,h)anthracene	ND	4.6	0.44	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Dibenzofuran	ND	4.6	0.79	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Di-n-butylphthalate	ND	9.3	0.46	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
3,3-Dichlorobenzidine	ND	9.3	0.42	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
2,4-Dichlorophenol	ND	9.3	0.43	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Diethylphthalate	ND	9.3	0.52	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
2,4-Dimethylphenol	ND	9.3	0.38	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Dimethylphthalate	ND	9.3	0.40	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.1	µg/L	1	V-04	SW-846 8270E	5/30/23	6/13/23 0:39	BGL
2,4-Dinitrophenol	ND	9.3	1.2	µg/L	1	V-04	SW-846 8270E	5/30/23	6/13/23 0:39	BGL
2,4-Dinitrotoluene	ND	9.3	0.32	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
2,6-Dinitrotoluene	ND	9.3	0.51	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Di-n-octylphthalate	ND	9.3	0.30	µg/L	1	V-04	SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Fluoranthene	ND	4.6	0.52	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Fluorene	ND	4.6	0.70	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Hexachlorobenzene	ND	9.3	0.67	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Hexachlorobutadiene	ND	9.3	1.1	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Hexachlorocyclopentadiene	ND	9.3	2.6	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-MW-19

Sampled: 5/23/2023 17:50

Sample ID: 23E3538-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	9.3	1.2	µg/L	1	L-04	SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Indeno(1,2,3-cd)pyrene	ND	4.6	0.44	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Isophorone	ND	9.3	0.50	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
2-Methylnaphthalene	ND	4.6	0.86	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
2-Methylphenol	ND	9.3	0.42	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
3/4-Methylphenol	ND	9.3	0.44	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Naphthalene	ND	4.6	0.84	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
2-Nitroaniline	ND	9.3	0.46	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
3-Nitroaniline	ND	9.3	0.48	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
4-Nitroaniline	ND	9.3	0.40	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Nitrobenzene	ND	9.3	0.63	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
2-Nitrophenol	ND	9.3	0.50	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
4-Nitrophenol	ND	9.3	1.2	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.3	0.44	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
N-Nitrosodi-n-propylamine	ND	9.3	0.61	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Pentachlorophenol	ND	9.3	0.44	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Phenanthrene	ND	4.6	0.66	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Phenol	ND	9.3	0.55	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Pyrene	ND	4.6	0.43	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.3	1.1	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
2,4,5-Trichlorophenol	ND	9.3	0.42	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
2,4,6-Trichlorophenol	ND	9.3	0.35	µg/L	1		SW-846 8270E	5/30/23	6/13/23 0:39	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	54.8		15-110				6/13/23 0:39			
Phenol-d6	36.3		15-110				6/13/23 0:39			
Nitrobenzene-d5	84.0		30-130				6/13/23 0:39			
2-Fluorobiphenyl	83.0		30-130				6/13/23 0:39			
2,4,6-Tribromophenol	93.0		15-110				6/13/23 0:39			
p-Terphenyl-d14	103		30-130				6/13/23 0:39			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-MW-19

Sampled: 5/23/2023 17:50

Sample ID: 23E3538-01

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.11	0.19	0.031	µg/L	1	J	SW-846 8270E	5/30/23	6/9/23 11:02	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	26.1		15-110				6/9/23 11:02			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-MW-19

Sampled: 5/23/2023 17:50

Sample ID: 23E3538-01

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.18	0.034	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:14	TG
Aldrin [1]	ND	0.045	0.0066	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:14	TG
alpha-BHC [1]	ND	0.045	0.0033	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:14	TG
beta-BHC [1]	ND	0.045	0.0075	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:14	TG
delta-BHC [1]	ND	0.045	0.0054	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:14	TG
gamma-BHC (Lindane) [1]	ND	0.027	0.0037	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:14	TG
Chlordane [1]	ND	0.18	0.031	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:14	TG
4,4'-DDD [1]	ND	0.036	0.0038	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:14	TG
4,4'-DDE [1]	ND	0.036	0.0046	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:14	TG
4,4'-DDT [1]	ND	0.036	0.0055	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:14	TG
Dieldrin [1]	ND	0.0018	0.00092	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:14	TG
Endosulfan I [1]	ND	0.045	0.0047	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:14	TG
Endosulfan II [1]	ND	0.073	0.0035	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:14	TG
Endosulfan sulfate [1]	ND	0.073	0.0058	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:14	TG
Endrin [1]	ND	0.073	0.0038	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:14	TG
Endrin aldehyde [1]	ND	0.073	0.0040	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:14	TG
Endrin ketone [1]	ND	0.073	0.0036	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:14	TG
Heptachlor [1]	ND	0.045	0.0055	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:14	TG
Heptachlor epoxide [1]	ND	0.045	0.0063	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:14	TG
Hexachlorobenzene [1]	ND	0.045	0.026	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:14	TG
Methoxychlor [1]	ND	0.45	0.0094	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:14	TG
Toxaphene [1]	ND	0.91	0.60	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:14	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	85.9		30-150				6/9/23 1:14			
Decachlorobiphenyl [2]	84.5		30-150				6/9/23 1:14			
Tetrachloro-m-xylene [1]	77.7		30-150				6/9/23 1:14			
Tetrachloro-m-xylene [2]	76.1		30-150				6/9/23 1:14			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-MW-16D

Sampled: 5/24/2023 08:19

Sample ID: 23E3538-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Bromoform	ND	1.0	0.41	µg/L	1	V-05	SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/1/23	6/3/23 2:52	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-MW-16D

Sampled: 5/24/2023 08:19

Sample ID: 23E3538-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/1/23	6/3/23 2:52	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.3	70-130	
Toluene-d8	97.7	70-130	
4-Bromofluorobenzene	90.1	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-MW-16D

Sampled: 5/24/2023 08:19

Sample ID: 23E3538-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	20	1.6	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Benzaldehyde	ND	10	0.72	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Biphenyl	ND	20	0.92	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Caprolactam	ND	10	0.72	µg/L	1	L-04	SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Acenaphthene	ND	5.0	0.79	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Acenaphthylene	ND	5.0	0.64	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Acetophenone	ND	10	0.50	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Anthracene	ND	5.0	0.54	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Benzo(a)anthracene	ND	5.0	0.38	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Benzo(a)pyrene	ND	5.0	0.43	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Benzo(b)fluoranthene	ND	5.0	0.32	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Benzo(g,h,i)perylene	ND	5.0	0.52	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Benzo(k)fluoranthene	ND	5.0	0.46	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Bis(2-chloroethoxy)methane	ND	10	0.58	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Bis(2-chloroethyl)ether	ND	10	0.46	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Bis(2-chloroisopropyl)ether	ND	10	0.75	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	0.32	µg/L	1	V-04	SW-846 8270E	5/30/23	6/13/23 1:01	BGL
4-Bromophenylphenylether	ND	10	0.71	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Butylbenzylphthalate	ND	10	0.40	µg/L	1	V-35	SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Carbazole	ND	10	0.46	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
4-Chloroaniline	ND	10	5.2	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
4-Chloro-3-methylphenol	ND	10	0.63	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
2-Chloronaphthalene	ND	10	0.81	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
2-Chlorophenol	ND	10	0.41	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
4-Chlorophenylphenylether	ND	10	0.87	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Chrysene	ND	5.0	0.46	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Dibenz(a,h)anthracene	ND	5.0	0.48	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Dibenzofuran	ND	5.0	0.86	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Di-n-butylphthalate	ND	10	0.50	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
3,3-Dichlorobenzidine	ND	10	0.46	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
2,4-Dichlorophenol	ND	10	0.47	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Diethylphthalate	ND	10	0.56	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
2,4-Dimethylphenol	ND	10	0.41	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Dimethylphthalate	ND	10	0.44	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
4,6-Dinitro-2-methylphenol	ND	20	2.3	µg/L	1	V-04	SW-846 8270E	5/30/23	6/13/23 1:01	BGL
2,4-Dinitrophenol	ND	10	1.3	µg/L	1	V-04	SW-846 8270E	5/30/23	6/13/23 1:01	BGL
2,4-Dinitrotoluene	ND	10	0.35	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
2,6-Dinitrotoluene	ND	10	0.55	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Di-n-octylphthalate	ND	10	0.33	µg/L	1	V-04	SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Fluoranthene	ND	5.0	0.56	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Fluorene	ND	5.0	0.76	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Hexachlorobenzene	ND	10	0.72	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Hexachlorobutadiene	ND	10	1.2	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Hexachlorocyclopentadiene	ND	10	2.8	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-MW-16D

Sampled: 5/24/2023 08:19

Sample ID: 23E3538-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	10	1.2	µg/L	1	L-04	SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	0.48	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Isophorone	ND	10	0.54	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
2-Methylnaphthalene	ND	5.0	0.93	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
2-Methylphenol	ND	10	0.46	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
3/4-Methylphenol	ND	10	0.48	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Naphthalene	ND	5.0	0.90	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
2-Nitroaniline	ND	10	0.50	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
3-Nitroaniline	ND	10	0.52	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
4-Nitroaniline	ND	10	0.44	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Nitrobenzene	ND	10	0.68	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
2-Nitrophenol	ND	10	0.54	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
4-Nitrophenol	ND	10	1.3	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	10	0.48	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
N-Nitrosodi-n-propylamine	ND	10	0.65	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Pentachlorophenol	ND	10	0.48	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Phenanthrene	ND	5.0	0.72	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Phenol	3.3	10	0.59	µg/L	1	J	SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Pyrene	ND	5.0	0.46	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	1.2	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
2,4,5-Trichlorophenol	ND	10	0.45	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
2,4,6-Trichlorophenol	ND	10	0.38	µg/L	1		SW-846 8270E	5/30/23	6/13/23 1:01	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	70.9		15-110				6/13/23 1:01			
Phenol-d6	47.5		15-110				6/13/23 1:01			
Nitrobenzene-d5	95.7		30-130				6/13/23 1:01			
2-Fluorobiphenyl	90.9		30-130				6/13/23 1:01			
2,4,6-Tribromophenol	102		15-110				6/13/23 1:01			
p-Terphenyl-d14	109		30-130				6/13/23 1:01			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-MW-16D

Sampled: 5/24/2023 08:19

Sample ID: 23E3538-02

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.031	µg/L	1		SW-846 8270E	5/31/23	6/9/23 11:23	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	31.3		15-110				6/9/23 11:23			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-MW-16D

Sampled: 5/24/2023 08:19

Sample ID: 23E3538-02

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.19	0.036	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:37	TG
Aldrin [1]	ND	0.048	0.0070	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:37	TG
alpha-BHC [1]	ND	0.048	0.0035	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:37	TG
beta-BHC [1]	ND	0.048	0.0079	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:37	TG
delta-BHC [1]	ND	0.048	0.0057	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:37	TG
gamma-BHC (Lindane) [1]	ND	0.029	0.0039	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:37	TG
Chlordane [1]	ND	0.19	0.032	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:37	TG
4,4'-DDD [1]	ND	0.038	0.0040	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:37	TG
4,4'-DDE [1]	ND	0.038	0.0048	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:37	TG
4,4'-DDT [1]	ND	0.038	0.0058	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:37	TG
Dieldrin [1]	ND	0.0019	0.00098	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:37	TG
Endosulfan I [1]	ND	0.048	0.0050	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:37	TG
Endosulfan II [1]	ND	0.077	0.0037	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:37	TG
Endosulfan sulfate [1]	ND	0.077	0.0062	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:37	TG
Endrin [1]	ND	0.077	0.0040	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:37	TG
Endrin aldehyde [1]	ND	0.077	0.0043	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:37	TG
Endrin ketone [1]	ND	0.077	0.0038	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:37	TG
Heptachlor [1]	ND	0.048	0.0059	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:37	TG
Heptachlor epoxide [1]	ND	0.048	0.0066	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:37	TG
Hexachlorobenzene [1]	ND	0.048	0.027	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:37	TG
Methoxychlor [1]	ND	0.48	0.010	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:37	TG
Toxaphene [1]	ND	0.96	0.64	µg/L	1		SW-846 8081B	5/30/23	6/9/23 1:37	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	95.9		30-150				6/9/23 1:37			
Decachlorobiphenyl [2]	94.0		30-150				6/9/23 1:37			
Tetrachloro-m-xylene [1]	77.0		30-150				6/9/23 1:37			
Tetrachloro-m-xylene [2]	75.5		30-150				6/9/23 1:37			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-MW-15D

Sampled: 5/24/2023 08:55

Sample ID: 23E3538-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Bromoform	ND	1.0	0.41	µg/L	1	V-05	SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/1/23	6/3/23 3:18	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-MW-15D

Sampled: 5/24/2023 08:55

Sample ID: 23E3538-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:18	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	99.0	70-130	
Toluene-d8	99.4	70-130	
4-Bromofluorobenzene	91.6	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-MW-15D

Sampled: 5/24/2023 08:55

Sample ID: 23E3538-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	19	1.5	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Benzaldehyde	ND	9.3	0.68	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Biphenyl	ND	19	0.86	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Caprolactam	ND	9.3	0.67	µg/L	1	L-04	SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Acenaphthene	ND	4.7	0.73	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Acenaphthylene	ND	4.7	0.60	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Acetophenone	ND	9.3	0.47	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Anthracene	ND	4.7	0.51	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Benzo(a)anthracene	ND	4.7	0.35	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Benzo(a)pyrene	ND	4.7	0.41	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Benzo(b)fluoranthene	ND	4.7	0.30	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Benzo(g,h,i)perylene	ND	4.7	0.49	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Benzo(k)fluoranthene	ND	4.7	0.43	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Bis(2-chloroethoxy)methane	ND	9.3	0.54	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Bis(2-chloroethyl)ether	ND	9.3	0.43	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Bis(2-chloroisopropyl)ether	ND	9.3	0.70	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.3	0.30	µg/L	1	V-04	SW-846 8270E	5/31/23	6/10/23 21:48	BGL
4-Bromophenylphenylether	ND	9.3	0.66	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Butylbenzylphthalate	ND	9.3	0.37	µg/L	1	V-35	SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Carbazole	ND	9.3	0.43	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
4-Chloroaniline	ND	9.3	4.9	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
4-Chloro-3-methylphenol	ND	9.3	0.59	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
2-Chloronaphthalene	ND	9.3	0.76	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
2-Chlorophenol	ND	9.3	0.38	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
4-Chlorophenylphenylether	ND	9.3	0.81	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Chrysene	ND	4.7	0.43	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Dibenz(a,h)anthracene	ND	4.7	0.44	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Dibenzofuran	ND	4.7	0.80	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Di-n-butylphthalate	ND	9.3	0.47	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
3,3-Dichlorobenzidine	ND	9.3	0.43	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
2,4-Dichlorophenol	ND	9.3	0.44	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Diethylphthalate	ND	9.3	0.52	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
2,4-Dimethylphenol	ND	9.3	0.38	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Dimethylphthalate	ND	9.3	0.41	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
4,6-Dinitro-2-methylphenol	ND	19	2.2	µg/L	1	V-04	SW-846 8270E	5/31/23	6/10/23 21:48	BGL
2,4-Dinitrophenol	ND	9.3	1.2	µg/L	1	V-04	SW-846 8270E	5/31/23	6/10/23 21:48	BGL
2,4-Dinitrotoluene	ND	9.3	0.33	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
2,6-Dinitrotoluene	ND	9.3	0.51	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Di-n-octylphthalate	ND	9.3	0.31	µg/L	1	V-04	SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Fluoranthene	ND	4.7	0.53	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Fluorene	ND	4.7	0.71	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Hexachlorobenzene	ND	9.3	0.67	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Hexachlorobutadiene	ND	9.3	1.1	µg/L	1	L-04	SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Hexachlorocyclopentadiene	ND	9.3	2.7	µg/L	1	L-04	SW-846 8270E	5/31/23	6/10/23 21:48	BGL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-MW-15D

Sampled: 5/24/2023 08:55

Sample ID: 23E3538-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	9.3	1.2	µg/L	1	L-04	SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Indeno(1,2,3-cd)pyrene	ND	4.7	0.44	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Isophorone	ND	9.3	0.51	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
2-Methylnaphthalene	ND	4.7	0.87	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
2-Methylphenol	ND	9.3	0.43	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
3/4-Methylphenol	ND	9.3	0.45	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Naphthalene	ND	4.7	0.85	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
2-Nitroaniline	ND	9.3	0.46	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
3-Nitroaniline	ND	9.3	0.48	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
4-Nitroaniline	ND	9.3	0.41	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Nitrobenzene	ND	9.3	0.63	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
2-Nitrophenol	ND	9.3	0.51	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
4-Nitrophenol	ND	9.3	1.2	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.3	0.45	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
N-Nitrosodi-n-propylamine	ND	9.3	0.61	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Pentachlorophenol	ND	9.3	0.45	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Phenanthrene	ND	4.7	0.67	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Phenol	ND	9.3	0.55	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Pyrene	ND	4.7	0.43	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.3	1.1	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
2,4,5-Trichlorophenol	ND	9.3	0.42	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
2,4,6-Trichlorophenol	ND	9.3	0.35	µg/L	1		SW-846 8270E	5/31/23	6/10/23 21:48	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	59.6		15-110				6/10/23 21:48			
Phenol-d6	38.5		15-110				6/10/23 21:48			
Nitrobenzene-d5	83.3		30-130				6/10/23 21:48			
2-Fluorobiphenyl	80.4		30-130				6/10/23 21:48			
2,4,6-Tribromophenol	87.7		15-110				6/10/23 21:48			
p-Terphenyl-d14	102		30-130				6/10/23 21:48			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-MW-15D

Sampled: 5/24/2023 08:55

Sample ID: 23E3538-03

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.032	µg/L	1		SW-846 8270E	5/31/23	6/9/23 11:44	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	27.2		15-110				6/9/23 11:44			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-MW-15D

Sampled: 5/24/2023 08:55

Sample ID: 23E3538-03

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.19	0.036	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:00	TG
Aldrin [1]	ND	0.048	0.0069	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:00	TG
alpha-BHC [1]	ND	0.048	0.0035	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:00	TG
beta-BHC [1]	ND	0.048	0.0079	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:00	TG
delta-BHC [1]	ND	0.048	0.0056	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:00	TG
gamma-BHC (Lindane) [1]	ND	0.029	0.0039	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:00	TG
Chlordane [1]	ND	0.19	0.032	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:00	TG
4,4'-DDD [1]	ND	0.038	0.0040	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:00	TG
4,4'-DDE [1]	ND	0.038	0.0048	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:00	TG
4,4'-DDT [1]	ND	0.038	0.0058	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:00	TG
Dieldrin [1]	ND	0.0019	0.00097	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:00	TG
Endosulfan I [1]	ND	0.048	0.0049	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:00	TG
Endosulfan II [1]	ND	0.076	0.0037	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:00	TG
Endosulfan sulfate [1]	ND	0.076	0.0061	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:00	TG
Endrin [1]	ND	0.076	0.0039	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:00	TG
Endrin aldehyde [1]	ND	0.076	0.0042	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:00	TG
Endrin ketone [1]	ND	0.076	0.0037	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:00	TG
Heptachlor [1]	ND	0.048	0.0058	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:00	TG
Heptachlor epoxide [1]	ND	0.048	0.0065	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:00	TG
Hexachlorobenzene [1]	ND	0.048	0.027	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:00	TG
Methoxychlor [1]	ND	0.48	0.0099	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:00	TG
Toxaphene [1]	ND	0.95	0.63	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:00	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	99.7		30-150				6/9/23 2:00			
Decachlorobiphenyl [2]	98.3		30-150				6/9/23 2:00			
Tetrachloro-m-xylene [1]	80.6		30-150				6/9/23 2:00			
Tetrachloro-m-xylene [2]	77.0		30-150				6/9/23 2:00			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SW-02

Sampled: 5/24/2023 11:35

Sample ID: 23E3538-04

Sample Matrix: Surface Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Bromoform	ND	1.0	0.41	µg/L	1	MS-07A, V-05	SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	MS-07A, V-05	SW-846 8260D	6/1/23	6/3/23 3:45	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1	MS-07A	SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SW-02

Sampled: 5/24/2023 11:35

Sample ID: 23E3538-04

Sample Matrix: Surface Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/1/23	6/3/23 3:45	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	97.6	70-130	
4-Bromofluorobenzene	91.5	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SW-02

Sampled: 5/24/2023 11:35

Sample ID: 23E3538-04

Sample Matrix: Surface Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	17	1.4	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Benzaldehyde	ND	8.5	0.62	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Biphenyl	ND	17	0.79	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Caprolactam	ND	8.5	0.61	µg/L	1	L-04, MS-09	SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Acenaphthene	ND	4.3	0.67	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Acenaphthylene	ND	4.3	0.55	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Acetophenone	ND	8.5	0.43	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Anthracene	ND	4.3	0.46	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Benzo(a)anthracene	ND	4.3	0.32	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Benzo(a)pyrene	ND	4.3	0.37	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Benzo(b)fluoranthene	ND	4.3	0.28	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Benzo(g,h,i)perylene	ND	4.3	0.45	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Benzo(k)fluoranthene	ND	4.3	0.39	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Bis(2-chloroethoxy)methane	ND	8.5	0.49	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Bis(2-chloroethyl)ether	ND	8.5	0.39	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Bis(2-chloroisopropyl)ether	ND	8.5	0.64	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Bis(2-Ethylhexyl)phthalate	ND	8.5	0.28	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
4-Bromophenylphenylether	ND	8.5	0.61	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Butylbenzylphthalate	ND	8.5	0.34	µg/L	1	V-05	SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Carbazole	ND	8.5	0.39	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
4-Chloroaniline	ND	8.5	4.4	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
4-Chloro-3-methylphenol	ND	8.5	0.54	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
2-Chloronaphthalene	ND	8.5	0.69	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
2-Chlorophenol	ND	8.5	0.35	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
4-Chlorophenylphenylether	ND	8.5	0.74	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Chrysene	ND	4.3	0.39	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Dibenz(a,h)anthracene	ND	4.3	0.41	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Dibenzofuran	ND	4.3	0.73	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Di-n-butylphthalate	ND	8.5	0.43	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
3,3-Dichlorobenzidine	ND	8.5	0.39	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
2,4-Dichlorophenol	ND	8.5	0.40	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Diethylphthalate	ND	8.5	0.48	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
2,4-Dimethylphenol	ND	8.5	0.35	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Dimethylphthalate	ND	8.5	0.37	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
4,6-Dinitro-2-methylphenol	ND	17	2.0	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
2,4-Dinitrophenol	ND	17	1.1	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
2,4-Dinitrotoluene	ND	8.5	0.30	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
2,6-Dinitrotoluene	ND	8.5	0.47	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Di-n-octylphthalate	ND	8.5	0.28	µg/L	1	V-05	SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Fluoranthene	ND	4.3	0.48	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Fluorene	ND	4.3	0.65	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Hexachlorobenzene	ND	8.5	0.62	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Hexachlorobutadiene	ND	8.5	1.1	µg/L	1	L-04, MS-09	SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Hexachlorocyclopentadiene	ND	8.5	2.4	µg/L	1	L-04	SW-846 8270E	5/31/23	6/6/23 18:34	BGL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SW-02

Sampled: 5/24/2023 11:35

Sample ID: 23E3538-04

Sample Matrix: Surface Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	8.5	1.1	µg/L	1	L-04, MS-09	SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Indeno(1,2,3-cd)pyrene	ND	4.3	0.41	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Isophorone	ND	8.5	0.46	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
2-Methylnaphthalene	ND	4.3	0.80	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
2-Methylphenol	ND	8.5	0.39	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
3/4-Methylphenol	ND	8.5	0.41	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Naphthalene	ND	4.3	0.77	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
2-Nitroaniline	ND	8.5	0.42	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
3-Nitroaniline	ND	8.5	0.44	µg/L	1	V-20	SW-846 8270E	5/31/23	6/6/23 18:34	BGL
4-Nitroaniline	ND	8.5	0.37	µg/L	1	V-20	SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Nitrobenzene	ND	8.5	0.58	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
2-Nitrophenol	ND	8.5	0.46	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
4-Nitrophenol	ND	17	1.1	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	8.5	0.41	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
N-Nitrosodi-n-propylamine	ND	8.5	0.56	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Pentachlorophenol	ND	8.5	0.41	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Phenanthrene	ND	4.3	0.61	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Phenol	ND	8.5	0.51	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Pyrene	ND	4.3	0.39	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
1,2,4,5-Tetrachlorobenzene	ND	8.5	1.0	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
2,4,5-Trichlorophenol	ND	8.5	0.39	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
2,4,6-Trichlorophenol	ND	8.5	0.32	µg/L	1		SW-846 8270E	5/31/23	6/6/23 18:34	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	58.3		15-110				6/6/23 18:34			
Phenol-d6	37.1		15-110				6/6/23 18:34			
Nitrobenzene-d5	87.2		30-130				6/6/23 18:34			
2-Fluorobiphenyl	82.0		30-130				6/6/23 18:34			
2,4,6-Tribromophenol	86.4		15-110				6/6/23 18:34			
p-Terphenyl-d14	90.4		30-130				6/6/23 18:34			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SW-02

Sampled: 5/24/2023 11:35

Sample ID: 23E3538-04

Sample Matrix: Surface Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.031	µg/L	1		SW-846 8270E	5/31/23	6/9/23 12:04	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	27.8		15-110				6/9/23 12:04			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SW-02

Sampled: 5/24/2023 11:35

Sample ID: 23E3538-04

Sample Matrix: Surface Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.18	0.034	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:23	TG
Aldrin [1]	ND	0.045	0.0065	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:23	TG
alpha-BHC [1]	ND	0.045	0.0033	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:23	TG
beta-BHC [1]	ND	0.045	0.0074	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:23	TG
delta-BHC [1]	ND	0.045	0.0053	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:23	TG
gamma-BHC (Lindane) [1]	ND	0.027	0.0037	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:23	TG
Chlordane [1]	ND	0.18	0.030	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:23	TG
4,4'-DDD [1]	ND	0.036	0.0038	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:23	TG
4,4'-DDE [1]	ND	0.036	0.0045	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:23	TG
4,4'-DDT [1]	ND	0.036	0.0055	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:23	TG
Dieldrin [1]	ND	0.0018	0.00091	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:23	TG
Endosulfan I [1]	ND	0.045	0.0047	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:23	TG
Endosulfan II [1]	ND	0.072	0.0035	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:23	TG
Endosulfan sulfate [1]	ND	0.072	0.0058	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:23	TG
Endrin [1]	ND	0.072	0.0037	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:23	TG
Endrin aldehyde [1]	ND	0.072	0.0040	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:23	TG
Endrin ketone [1]	ND	0.072	0.0035	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:23	TG
Heptachlor [1]	ND	0.045	0.0055	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:23	TG
Heptachlor epoxide [1]	ND	0.045	0.0062	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:23	TG
Hexachlorobenzene [1]	ND	0.045	0.025	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:23	TG
Methoxychlor [1]	ND	0.45	0.0093	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:23	TG
Toxaphene [1]	ND	0.90	0.60	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:23	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	100		30-150				6/9/23 2:23			
Decachlorobiphenyl [2]	99.6		30-150				6/9/23 2:23			
Tetrachloro-m-xylene [1]	83.0		30-150				6/9/23 2:23			
Tetrachloro-m-xylene [2]	81.4		30-150				6/9/23 2:23			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SD-02

Sampled: 5/24/2023 11:50

Sample ID: 23E3538-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.0094	0.086	0.0078	mg/Kg dry	1	J	SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Acrylonitrile	ND	0.0052	0.00077	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00086	0.00059	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Benzene	ND	0.0017	0.00050	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Bromobenzene	ND	0.0017	0.00040	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Bromochloromethane	ND	0.0017	0.00068	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Bromodichloromethane	ND	0.0017	0.00045	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Bromoform	ND	0.0017	0.00053	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Bromomethane	ND	0.0086	0.0015	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
2-Butanone (MEK)	ND	0.035	0.0054	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
tert-Butyl Alcohol (TBA)	ND	0.086	0.034	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
n-Butylbenzene	ND	0.0017	0.00056	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
sec-Butylbenzene	ND	0.0017	0.00082	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
tert-Butylbenzene	ND	0.0017	0.00074	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00086	0.00068	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Carbon Disulfide	ND	0.0086	0.0069	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Carbon Tetrachloride	ND	0.0017	0.00068	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Chlorobenzene	ND	0.0017	0.00048	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Chlorodibromomethane	ND	0.00086	0.00055	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Chloroethane	ND	0.017	0.00095	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Chloroform	ND	0.0035	0.00054	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Chloromethane	ND	0.0086	0.00085	mg/Kg dry	1	L-04, MS-07A2, V-05	SW-846 8260D	6/2/23	6/2/23 6:38	MFF
2-Chlorotoluene	ND	0.0017	0.00044	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
4-Chlorotoluene	ND	0.0017	0.00039	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0017	0.00068	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
1,2-Dibromoethane (EDB)	ND	0.00086	0.00066	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Dibromomethane	ND	0.0017	0.00060	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
1,2-Dichlorobenzene	ND	0.0017	0.00046	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
1,3-Dichlorobenzene	ND	0.0017	0.00048	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
1,4-Dichlorobenzene	ND	0.0017	0.00052	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
trans-1,4-Dichloro-2-butene	ND	0.0035	0.00053	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.017	0.00089	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
1,1-Dichloroethane	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
1,2-Dichloroethane	ND	0.0017	0.00058	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
1,1-Dichloroethylene	ND	0.0035	0.00071	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
cis-1,2-Dichloroethylene	ND	0.0017	0.00055	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
trans-1,2-Dichloroethylene	ND	0.0017	0.00063	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
1,2-Dichloropropane	ND	0.0017	0.00054	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
1,3-Dichloropropane	ND	0.00086	0.00043	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
2,2-Dichloropropane	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
1,1-Dichloropropene	ND	0.0017	0.00077	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
cis-1,3-Dichloropropene	ND	0.00086	0.00048	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
trans-1,3-Dichloropropene	ND	0.00086	0.00053	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SD-02

Sampled: 5/24/2023 11:50

Sample ID: 23E3538-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diethyl Ether	ND	0.017	0.00071	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Diisopropyl Ether (DIPE)	ND	0.00086	0.00059	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
1,4-Dioxane	ND	0.086	0.039	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Ethylbenzene	ND	0.0017	0.00052	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Hexachlorobutadiene	ND	0.0017	0.00072	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
2-Hexanone (MBK)	ND	0.017	0.0043	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Isopropylbenzene (Cumene)	ND	0.0017	0.00054	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0017	0.00053	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Methyl Acetate	ND	0.0017	0.0012	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0035	0.00058	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Methyl Cyclohexane	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Methylene Chloride	ND	0.017	0.00083	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	0.0038	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Naphthalene	ND	0.0035	0.00062	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
n-Propylbenzene	ND	0.0017	0.00042	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Styrene	ND	0.0017	0.00043	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
1,1,1,2-Tetrachloroethane	ND	0.0017	0.00046	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
1,1,2,2-Tetrachloroethane	ND	0.00086	0.00048	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Tetrachloroethylene	ND	0.0017	0.00073	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Tetrahydrofuran	ND	0.0086	0.0031	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Toluene	ND	0.0017	0.00058	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
1,2,3-Trichlorobenzene	ND	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
1,2,4-Trichlorobenzene	ND	0.0017	0.00052	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
1,3,5-Trichlorobenzene	ND	0.0017	0.00049	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
1,1,1-Trichloroethane	ND	0.0017	0.00066	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
1,1,2-Trichloroethane	ND	0.0017	0.00046	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Trichloroethylene	ND	0.0017	0.00069	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0086	0.00064	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
1,2,3-Trichloropropane	ND	0.0017	0.00076	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0086	0.00074	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
1,2,4-Trimethylbenzene	ND	0.0017	0.00066	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
1,3,5-Trimethylbenzene	ND	0.0017	0.00050	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Vinyl Chloride	ND	0.0086	0.00064	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
m+p Xylene	ND	0.0035	0.0012	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
o-Xylene	ND	0.0017	0.00048	mg/Kg dry	1		SW-846 8260D	6/2/23	6/2/23 6:38	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	94.2		70-130				6/2/23 6:38			
Toluene-d8	98.5		70-130				6/2/23 6:38			
4-Bromofluorobenzene	100		70-130				6/2/23 6:38			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SD-02

Sampled: 5/24/2023 11:50

Sample ID: 23E3538-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.081	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Acenaphthylene	ND	0.21	0.083	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Acetophenone	ND	0.43	0.083	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Aniline	ND	0.43	0.072	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Anthracene	ND	0.21	0.082	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Benzidine	ND	0.83	0.26	mg/Kg dry	1	MS-07A, V-05, V-35	SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Benzo(a)anthracene	ND	0.21	0.077	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Benzo(a)pyrene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Benzo(b)fluoranthene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Benzo(g,h,i)perylene	ND	0.21	0.089	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Benzo(k)fluoranthene	ND	0.21	0.077	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Benzoic Acid	ND	1.3	0.37	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Bis(2-chloroethoxy)methane	ND	0.43	0.083	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Bis(2-chloroethyl)ether	ND	0.43	0.089	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Bis(2-chloroisopropyl)ether	ND	0.43	0.18	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Bis(2-Ethylhexyl)phthalate	ND	0.43	0.087	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
4-Bromophenylphenylether	ND	0.43	0.088	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Butylbenzylphthalate	ND	0.43	0.080	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Carbazole	ND	0.21	0.083	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
4-Chloroaniline	ND	0.83	0.075	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
4-Chloro-3-methylphenol	ND	0.83	0.084	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
2-Chloronaphthalene	ND	0.43	0.075	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
2-Chlorophenol	ND	0.43	0.086	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
4-Chlorophenylphenylether	ND	0.43	0.082	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Chrysene	ND	0.21	0.077	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Dibenz(a,h)anthracene	ND	0.21	0.082	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Dibenzofuran	ND	0.43	0.083	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Di-n-butylphthalate	ND	0.43	0.077	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
1,2-Dichlorobenzene	ND	0.43	0.081	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
1,3-Dichlorobenzene	ND	0.43	0.079	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
1,4-Dichlorobenzene	ND	0.43	0.080	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
3,3-Dichlorobenzidine	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
2,4-Dichlorophenol	ND	0.43	0.082	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Diethylphthalate	ND	0.43	0.082	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
2,4-Dimethylphenol	ND	0.43	0.11	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Dimethylphthalate	ND	0.43	0.087	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
4,6-Dinitro-2-methylphenol	ND	0.43	0.35	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
2,4-Dinitrophenol	ND	0.83	0.37	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
2,4-Dinitrotoluene	ND	0.43	0.085	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
2,6-Dinitrotoluene	ND	0.43	0.096	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Di-n-octylphthalate	ND	0.43	0.084	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
1,2-Diphenylhydrazine/Azobenzene	ND	0.43	0.083	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Fluoranthene	ND	0.21	0.076	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Fluorene	ND	0.21	0.083	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SD-02

Sampled: 5/24/2023 11:50

Sample ID: 23E3538-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.43	0.088	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Hexachlorobutadiene	ND	0.43	0.086	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Hexachlorocyclopentadiene	ND	0.43	0.28	mg/Kg dry	1	MS-07A	SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Hexachloroethane	ND	0.43	0.083	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Indeno(1,2,3-cd)pyrene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Isophorone	ND	0.43	0.087	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
1-Methylnaphthalene	ND	0.21	0.086	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
2-Methylnaphthalene	ND	0.21	0.083	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
2-Methylphenol	ND	0.43	0.084	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
3/4-Methylphenol	ND	0.43	0.092	mg/Kg dry	1	R-06	SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Naphthalene	ND	0.21	0.085	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
2-Nitroaniline	ND	0.43	0.085	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
3-Nitroaniline	ND	0.43	0.10	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
4-Nitroaniline	ND	0.43	0.072	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Nitrobenzene	ND	0.43	0.092	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
2-Nitrophenol	ND	0.43	0.088	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
4-Nitrophenol	ND	0.83	0.18	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
N-Nitrosodimethylamine	ND	0.43	0.12	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
N-Nitrosodiphenylamine/Diphenylamine	ND	0.43	0.085	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
N-Nitrosodi-n-propylamine	ND	0.43	0.092	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Pentachloronitrobenzene	ND	0.43	0.089	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Pentachlorophenol	ND	0.43	0.19	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Phenanthrene	ND	0.21	0.083	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Phenol	ND	0.43	0.099	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Pyrene	ND	0.21	0.085	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Pyridine	ND	0.43	0.068	mg/Kg dry	1	MS-07A	SW-846 8270E	6/6/23	6/7/23 17:16	AR2
1,2,4,5-Tetrachlorobenzene	ND	0.43	0.087	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
1,2,4-Trichlorobenzene	ND	0.43	0.082	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
2,4,5-Trichlorophenol	ND	0.43	0.082	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
2,4,6-Trichlorophenol	ND	0.43	0.081	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 17:16	AR2
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	58.3		30-130				6/7/23 17:16			
Phenol-d6	60.5		30-130				6/7/23 17:16			
Nitrobenzene-d5	53.9		30-130				6/7/23 17:16			
2-Fluorobiphenyl	59.8		30-130				6/7/23 17:16			
2,4,6-Tribromophenol	66.6		30-130				6/7/23 17:16			
p-Terphenyl-d14	75.1		30-130				6/7/23 17:16			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SD-02

Sampled: 5/24/2023 11:50

Sample ID: 23E3538-05

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.063	0.026	mg/Kg dry	1		SW-846 8270E	5/26/23	6/9/23 20:11	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	59.2		15-110				6/9/23 20:11			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SD-02

Sampled: 5/24/2023 11:50

Sample ID: 23E3538-05

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.025	0.0075	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 19:57	TG
Aldrin [1]	ND	0.0063	0.00062	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 19:57	TG
alpha-BHC [1]	ND	0.0063	0.0034	mg/Kg dry	1	V-20	SW-846 8081B	6/6/23	6/10/23 19:57	TG
beta-BHC [1]	ND	0.0063	0.0028	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 19:57	TG
delta-BHC [1]	ND	0.0063	0.0041	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 19:57	TG
gamma-BHC (Lindane) [1]	ND	0.0025	0.00053	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 19:57	TG
Chlordane [1]	ND	0.025	0.0088	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 19:57	TG
4,4'-DDD [1]	ND	0.0050	0.00056	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 19:57	TG
4,4'-DDE [1]	ND	0.0050	0.00058	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 19:57	TG
4,4'-DDT [1]	ND	0.0050	0.00053	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 19:57	TG
Dieldrin [1]	ND	0.0050	0.00049	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 19:57	TG
Endosulfan I [1]	ND	0.0063	0.0030	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 19:57	TG
Endosulfan II [1]	ND	0.010	0.0030	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 19:57	TG
Endosulfan sulfate [1]	ND	0.010	0.0031	mg/Kg dry	1	R-06	SW-846 8081B	6/6/23	6/10/23 19:57	TG
Endrin [1]	ND	0.010	0.0031	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 19:57	TG
Endrin aldehyde [1]	ND	0.010	0.0061	mg/Kg dry	1		SW-846 8081B	6/6/23	6/11/23 5:56	TG
Endrin ketone [1]	ND	0.010	0.0029	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 19:57	TG
Heptachlor [1]	ND	0.0063	0.00061	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 19:57	TG
Heptachlor epoxide [1]	ND	0.0063	0.00056	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 19:57	TG
Hexachlorobenzene [1]	ND	0.0075	0.0042	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 19:57	TG
Methoxychlor [1]	ND	0.063	0.0077	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 19:57	TG
Toxaphene [1]	ND	0.13	0.061	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 19:57	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	69.1		30-150				6/10/23 19:57			
Decachlorobiphenyl [2]	70.3		30-150				6/10/23 19:57			
Tetrachloro-m-xylene [1]	75.9		30-150				6/10/23 19:57			
Tetrachloro-m-xylene [2]	75.1		30-150				6/10/23 19:57			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SD-02

Sampled: 5/24/2023 11:50

Sample ID: 23E3538-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.0			% Wt	1	H-06	SM 2540G	6/1/23	6/1/23 7:14	DRL
Total Organic Carbon	2300	100	65	mg/Kg	1	MS-07	Lloyd Kahn Method	6/2/23	6/2/23 8:20	QH

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SW-01

Sampled: 5/24/2023 12:25

Sample ID: 23E3538-06

Sample Matrix: Surface Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Bromoform	ND	1.0	0.41	µg/L	1	V-05	SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/1/23	6/3/23 4:12	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SW-01

Sampled: 5/24/2023 12:25

Sample ID: 23E3538-06

Sample Matrix: Surface Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:12	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	103	70-130	
Toluene-d8	99.0	70-130	
4-Bromofluorobenzene	91.0	70-130	

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SW-01

Sampled: 5/24/2023 12:25

Sample ID: 23E3538-06

Sample Matrix: Surface Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	18	1.5	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Benzaldehyde	ND	9.2	0.66	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Biphenyl	ND	18	0.85	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Caprolactam	ND	9.2	0.66	µg/L	1	L-04	SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Acenaphthene	ND	4.6	0.72	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Acenaphthylene	ND	4.6	0.59	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Acetophenone	ND	9.2	0.46	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Anthracene	ND	4.6	0.50	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Benzo(a)anthracene	ND	4.6	0.35	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Benzo(a)pyrene	ND	4.6	0.40	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Benzo(b)fluoranthene	ND	4.6	0.30	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Benzo(g,h,i)perylene	ND	4.6	0.48	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Benzo(k)fluoranthene	ND	4.6	0.42	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Bis(2-chloroethoxy)methane	ND	9.2	0.53	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Bis(2-chloroethyl)ether	ND	9.2	0.42	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Bis(2-chloroisopropyl)ether	ND	9.2	0.69	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Bis(2-Ethylhexyl)phthalate	ND	9.2	0.30	µg/L	1	V-04	SW-846 8270E	5/31/23	6/10/23 22:10	BGL
4-Bromophenylphenylether	ND	9.2	0.65	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Butylbenzylphthalate	ND	9.2	0.36	µg/L	1	V-35	SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Carbazole	ND	9.2	0.42	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
4-Chloroaniline	ND	9.2	4.8	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
4-Chloro-3-methylphenol	ND	9.2	0.58	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
2-Chloronaphthalene	ND	9.2	0.75	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
2-Chlorophenol	ND	9.2	0.38	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
4-Chlorophenylphenylether	ND	9.2	0.80	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Chrysene	ND	4.6	0.42	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Dibenz(a,h)anthracene	ND	4.6	0.44	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Dibenzofuran	ND	4.6	0.79	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Di-n-butylphthalate	ND	9.2	0.46	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
3,3-Dichlorobenzidine	ND	9.2	0.42	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
2,4-Dichlorophenol	ND	9.2	0.43	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Diethylphthalate	ND	9.2	0.51	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
2,4-Dimethylphenol	ND	9.2	0.38	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Dimethylphthalate	ND	9.2	0.40	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
4,6-Dinitro-2-methylphenol	ND	18	2.1	µg/L	1	V-04	SW-846 8270E	5/31/23	6/10/23 22:10	BGL
2,4-Dinitrophenol	ND	9.2	1.2	µg/L	1	V-04	SW-846 8270E	5/31/23	6/10/23 22:10	BGL
2,4-Dinitrotoluene	ND	9.2	0.32	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
2,6-Dinitrotoluene	ND	9.2	0.50	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Di-n-octylphthalate	ND	9.2	0.30	µg/L	1	V-04	SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Fluoranthene	ND	4.6	0.52	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Fluorene	ND	4.6	0.70	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Hexachlorobenzene	ND	9.2	0.66	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Hexachlorobutadiene	ND	9.2	1.1	µg/L	1	L-04	SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Hexachlorocyclopentadiene	ND	9.2	2.6	µg/L	1	L-04	SW-846 8270E	5/31/23	6/10/23 22:10	BGL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SW-01

Sampled: 5/24/2023 12:25

Sample ID: 23E3538-06

Sample Matrix: Surface Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	9.2	1.1	µg/L	1	L-04	SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Indeno(1,2,3-cd)pyrene	ND	4.6	0.44	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Isophorone	ND	9.2	0.50	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
2-Methylnaphthalene	ND	4.6	0.86	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
2-Methylphenol	ND	9.2	0.42	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
3/4-Methylphenol	ND	9.2	0.44	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Naphthalene	ND	4.6	0.83	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
2-Nitroaniline	ND	9.2	0.46	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
3-Nitroaniline	ND	9.2	0.47	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
4-Nitroaniline	ND	9.2	0.40	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Nitrobenzene	ND	9.2	0.62	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
2-Nitrophenol	ND	9.2	0.50	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
4-Nitrophenol	ND	9.2	1.2	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	9.2	0.44	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
N-Nitrosodi-n-propylamine	ND	9.2	0.60	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Pentachlorophenol	ND	9.2	0.44	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Phenanthrene	ND	4.6	0.66	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Phenol	ND	9.2	0.54	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Pyrene	ND	4.6	0.42	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.2	1.1	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
2,4,5-Trichlorophenol	ND	9.2	0.42	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
2,4,6-Trichlorophenol	ND	9.2	0.35	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:10	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	60.6		15-110				6/10/23 22:10			
Phenol-d6	39.6		15-110				6/10/23 22:10			
Nitrobenzene-d5	85.9		30-130				6/10/23 22:10			
2-Fluorobiphenyl	82.1		30-130				6/10/23 22:10			
2,4,6-Tribromophenol	90.2		15-110				6/10/23 22:10			
p-Terphenyl-d14	104		30-130				6/10/23 22:10			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SW-01

Sampled: 5/24/2023 12:25

Sample ID: 23E3538-06

Sample Matrix: Surface Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.031	µg/L	1		SW-846 8270E	5/31/23	6/9/23 12:25	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	28.6		15-110				6/9/23 12:25			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SW-01

Sampled: 5/24/2023 12:25

Sample ID: 23E3538-06

Sample Matrix: Surface Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.18	0.034	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:46	TG
Aldrin [1]	ND	0.045	0.0066	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:46	TG
alpha-BHC [1]	ND	0.045	0.0033	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:46	TG
beta-BHC [1]	ND	0.045	0.0075	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:46	TG
delta-BHC [1]	ND	0.045	0.0054	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:46	TG
gamma-BHC (Lindane) [1]	ND	0.027	0.0037	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:46	TG
Chlordane [1]	ND	0.18	0.031	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:46	TG
4,4'-DDD [1]	ND	0.036	0.0038	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:46	TG
4,4'-DDE [1]	ND	0.036	0.0046	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:46	TG
4,4'-DDT [1]	ND	0.036	0.0055	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:46	TG
Dieldrin [1]	ND	0.0018	0.00092	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:46	TG
Endosulfan I [1]	ND	0.045	0.0047	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:46	TG
Endosulfan II [1]	ND	0.073	0.0035	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:46	TG
Endosulfan sulfate [1]	ND	0.073	0.0058	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:46	TG
Endrin [1]	ND	0.073	0.0038	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:46	TG
Endrin aldehyde [1]	ND	0.073	0.0040	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:46	TG
Endrin ketone [1]	ND	0.073	0.0036	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:46	TG
Heptachlor [1]	ND	0.045	0.0055	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:46	TG
Heptachlor epoxide [1]	ND	0.045	0.0063	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:46	TG
Hexachlorobenzene [1]	ND	0.045	0.026	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:46	TG
Methoxychlor [1]	ND	0.45	0.0094	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:46	TG
Toxaphene [1]	ND	0.91	0.60	µg/L	1		SW-846 8081B	5/30/23	6/9/23 2:46	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	99.7		30-150				6/9/23 2:46			
Decachlorobiphenyl [2]	99.1		30-150				6/9/23 2:46			
Tetrachloro-m-xylene [1]	83.5		30-150				6/9/23 2:46			
Tetrachloro-m-xylene [2]	80.9		30-150				6/9/23 2:46			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SD-01

Sampled: 5/24/2023 12:35

Sample ID: 23E3538-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.010	0.073	0.0066	mg/Kg dry	1	J	SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Acrylonitrile	ND	0.0044	0.00065	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00073	0.00050	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Benzene	ND	0.0015	0.00043	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Bromobenzene	ND	0.0015	0.00034	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Bromochloromethane	ND	0.0015	0.00057	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Bromodichloromethane	ND	0.0015	0.00038	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Bromoform	ND	0.0015	0.00045	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Bromomethane	ND	0.0073	0.0013	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
2-Butanone (MEK)	ND	0.029	0.0046	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
tert-Butyl Alcohol (TBA)	ND	0.073	0.029	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
n-Butylbenzene	ND	0.0015	0.00048	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
sec-Butylbenzene	ND	0.0015	0.00069	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
tert-Butylbenzene	ND	0.0015	0.00063	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00073	0.00057	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Carbon Disulfide	ND	0.0073	0.0059	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Carbon Tetrachloride	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Chlorobenzene	ND	0.0015	0.00041	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Chlorodibromomethane	ND	0.00073	0.00046	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Chloroethane	ND	0.015	0.00081	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Chloroform	ND	0.0029	0.00046	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Chloromethane	ND	0.0073	0.00072	mg/Kg dry	1	V-05, L-04	SW-846 8260D	6/1/23	6/1/23 14:10	MFF
2-Chlorotoluene	ND	0.0015	0.00037	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
4-Chlorotoluene	ND	0.0015	0.00033	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	0.00058	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
1,2-Dibromoethane (EDB)	ND	0.00073	0.00056	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Dibromomethane	ND	0.0015	0.00051	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
1,2-Dichlorobenzene	ND	0.0015	0.00039	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
1,3-Dichlorobenzene	ND	0.0015	0.00040	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
1,4-Dichlorobenzene	ND	0.0015	0.00044	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
trans-1,4-Dichloro-2-butene	ND	0.0029	0.00045	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	0.00076	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
1,1-Dichloroethane	ND	0.0015	0.00050	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
1,2-Dichloroethane	ND	0.0015	0.00049	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
1,1-Dichloroethylene	ND	0.0029	0.00060	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
cis-1,2-Dichloroethylene	ND	0.0015	0.00047	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
trans-1,2-Dichloroethylene	ND	0.0015	0.00053	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
1,2-Dichloropropane	ND	0.0015	0.00045	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
1,3-Dichloropropane	ND	0.00073	0.00036	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
2,2-Dichloropropane	ND	0.0015	0.00057	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
1,1-Dichloropropene	ND	0.0015	0.00065	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
cis-1,3-Dichloropropene	ND	0.00073	0.00041	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
trans-1,3-Dichloropropene	ND	0.00073	0.00045	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Diethyl Ether	ND	0.015	0.00060	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SD-01

Sampled: 5/24/2023 12:35

Sample ID: 23E3538-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00073	0.00050	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
1,4-Dioxane	ND	0.073	0.033	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Ethylbenzene	ND	0.0015	0.00044	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Hexachlorobutadiene	ND	0.0015	0.00061	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
2-Hexanone (MBK)	ND	0.015	0.0037	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Isopropylbenzene (Cumene)	ND	0.0015	0.00046	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	0.00045	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Methyl Acetate	ND	0.0015	0.0010	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0029	0.00049	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Methyl Cyclohexane	ND	0.0015	0.00057	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Methylene Chloride	ND	0.015	0.00070	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	0.0032	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Naphthalene	ND	0.0029	0.00053	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
n-Propylbenzene	ND	0.0015	0.00035	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Styrene	ND	0.0015	0.00036	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	0.00039	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
1,1,2,2-Tetrachloroethane	ND	0.00073	0.00040	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Tetrachloroethylene	ND	0.0015	0.00062	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Tetrahydrofuran	ND	0.0073	0.0026	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Toluene	ND	0.0015	0.00050	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
1,2,3-Trichlorobenzene	ND	0.0015	0.00041	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
1,2,4-Trichlorobenzene	ND	0.0015	0.00044	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
1,3,5-Trichlorobenzene	ND	0.0015	0.00042	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
1,1,1-Trichloroethane	ND	0.0015	0.00056	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
1,1,2-Trichloroethane	ND	0.0015	0.00039	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Trichloroethylene	ND	0.0015	0.00059	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0073	0.00055	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
1,2,3-Trichloropropane	ND	0.0015	0.00065	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0073	0.00063	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
1,2,4-Trimethylbenzene	ND	0.0015	0.00056	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
1,3,5-Trimethylbenzene	ND	0.0015	0.00043	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Vinyl Chloride	ND	0.0073	0.00054	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
m+p Xylene	ND	0.0029	0.0010	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
o-Xylene	ND	0.0015	0.00041	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:10	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	96.5		70-130				6/1/23 14:10			
Toluene-d8	96.9		70-130				6/1/23 14:10			
4-Bromofluorobenzene	98.2		70-130				6/1/23 14:10			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SD-01

Sampled: 5/24/2023 12:35

Sample ID: 23E3538-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.076	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Acenaphthylene	ND	0.20	0.078	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Acetophenone	ND	0.40	0.078	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Aniline	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Anthracene	ND	0.20	0.077	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Benzidine	ND	0.77	0.24	mg/Kg dry	1	V-05, V-35	SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Benzo(a)anthracene	ND	0.20	0.072	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Benzo(a)pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Benzo(b)fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Benzo(g,h,i)perylene	ND	0.20	0.083	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Benzo(k)fluoranthene	ND	0.20	0.072	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Benzoic Acid	ND	1.2	0.35	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Bis(2-chloroethoxy)methane	ND	0.40	0.078	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Bis(2-chloroethyl)ether	ND	0.40	0.083	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Bis(2-chloroisopropyl)ether	ND	0.40	0.17	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Bis(2-Ethylhexyl)phthalate	ND	0.40	0.081	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
4-Bromophenylphenylether	ND	0.40	0.082	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Butylbenzylphthalate	ND	0.40	0.075	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Carbazole	ND	0.20	0.077	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
4-Chloroaniline	ND	0.77	0.070	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
4-Chloro-3-methylphenol	ND	0.77	0.078	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
2-Chloronaphthalene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
2-Chlorophenol	ND	0.40	0.080	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
4-Chlorophenylphenylether	ND	0.40	0.077	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Chrysene	ND	0.20	0.072	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Dibenz(a,h)anthracene	ND	0.20	0.077	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Dibenzofuran	ND	0.40	0.078	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Di-n-butylphthalate	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
1,2-Dichlorobenzene	ND	0.40	0.076	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
1,3-Dichlorobenzene	ND	0.40	0.074	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
1,4-Dichlorobenzene	ND	0.40	0.075	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
3,3-Dichlorobenzidine	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
2,4-Dichlorophenol	ND	0.40	0.077	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Diethylphthalate	ND	0.40	0.077	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
2,4-Dimethylphenol	ND	0.40	0.10	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Dimethylphthalate	ND	0.40	0.082	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
4,6-Dinitro-2-methylphenol	ND	0.40	0.32	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
2,4-Dinitrophenol	ND	0.77	0.35	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
2,4-Dinitrotoluene	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
2,6-Dinitrotoluene	ND	0.40	0.090	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Di-n-octylphthalate	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
1,2-Diphenylhydrazine/Azobenzene	ND	0.40	0.077	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Fluoranthene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Fluorene	ND	0.20	0.077	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SD-01

Sampled: 5/24/2023 12:35

Sample ID: 23E3538-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.40	0.083	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Hexachlorobutadiene	ND	0.40	0.080	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Hexachlorocyclopentadiene	ND	0.40	0.26	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Hexachloroethane	ND	0.40	0.078	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Indeno(1,2,3-cd)pyrene	ND	0.20	0.087	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Isophorone	ND	0.40	0.081	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
1-Methylnaphthalene	ND	0.20	0.081	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
2-Methylnaphthalene	ND	0.20	0.078	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
2-Methylphenol	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
3/4-Methylphenol	ND	0.40	0.086	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Naphthalene	ND	0.20	0.079	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
2-Nitroaniline	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
3-Nitroaniline	ND	0.40	0.094	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
4-Nitroaniline	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Nitrobenzene	ND	0.40	0.086	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
2-Nitrophenol	ND	0.40	0.082	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
4-Nitrophenol	ND	0.77	0.17	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
N-Nitrosodimethylamine	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
N-Nitrosodiphenylamine/Diphenylamine	ND	0.40	0.080	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
N-Nitrosodi-n-propylamine	ND	0.40	0.086	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Pentachloronitrobenzene	ND	0.40	0.084	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Pentachlorophenol	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Phenanthrene	ND	0.20	0.078	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Phenol	ND	0.40	0.092	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Pyrene	ND	0.20	0.079	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Pyridine	ND	0.40	0.064	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.081	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
1,2,4-Trichlorobenzene	ND	0.40	0.077	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
2,4,5-Trichlorophenol	ND	0.40	0.077	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
2,4,6-Trichlorophenol	ND	0.40	0.076	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:19	AR2
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	68.0		30-130				6/7/23 18:19			
Phenol-d6	70.6		30-130				6/7/23 18:19			
Nitrobenzene-d5	68.9		30-130				6/7/23 18:19			
2-Fluorobiphenyl	75.7		30-130				6/7/23 18:19			
2,4,6-Tribromophenol	74.0		30-130				6/7/23 18:19			
p-Terphenyl-d14	87.8		30-130				6/7/23 18:19			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SD-01

Sampled: 5/24/2023 12:35

Sample ID: 23E3538-07

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.059	0.024	mg/Kg dry	1		SW-846 8270E	5/26/23	6/9/23 20:31	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	31.1		15-110				6/9/23 20:31			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SD-01

Sampled: 5/24/2023 12:35

Sample ID: 23E3538-07

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	0.0068	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:25	TG
Alachlor [1]	ND	0.023	0.0070	mg/Kg dry	1		SW-846 8081B	6/12/23	6/13/23 17:23	TG
Aldrin [1]	ND	0.0057	0.00056	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:25	TG
Aldrin [1]	ND	0.0059	0.00058	mg/Kg dry	1		SW-846 8081B	6/12/23	6/13/23 17:23	TG
alpha-BHC [1]	ND	0.0057	0.0031	mg/Kg dry	1	V-20	SW-846 8081B	6/6/23	6/10/23 20:25	TG
alpha-BHC [1]	ND	0.0059	0.0032	mg/Kg dry	1		SW-846 8081B	6/12/23	6/13/23 17:23	TG
beta-BHC [1]	ND	0.0057	0.0025	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:25	TG
beta-BHC [1]	ND	0.0059	0.0026	mg/Kg dry	1		SW-846 8081B	6/12/23	6/13/23 17:23	TG
delta-BHC [1]	ND	0.0057	0.0038	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:25	TG
delta-BHC [1]	ND	0.0059	0.0039	mg/Kg dry	1		SW-846 8081B	6/12/23	6/13/23 17:23	TG
gamma-BHC (Lindane) [1]	ND	0.0023	0.00048	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:25	TG
gamma-BHC (Lindane) [1]	ND	0.0023	0.00050	mg/Kg dry	1		SW-846 8081B	6/12/23	6/13/23 17:23	TG
Chlordane [1]	ND	0.023	0.0080	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:25	TG
Chlordane [1]	ND	0.023	0.0082	mg/Kg dry	1		SW-846 8081B	6/12/23	6/13/23 17:23	TG
4,4'-DDD [1]	ND	0.0045	0.00051	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:25	TG
4,4'-DDD [1]	ND	0.0047	0.00052	mg/Kg dry	1		SW-846 8081B	6/12/23	6/13/23 17:23	TG
4,4'-DDE [1]	ND	0.0045	0.00053	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:25	TG
4,4'-DDE [1]	ND	0.0047	0.00055	mg/Kg dry	1		SW-846 8081B	6/12/23	6/13/23 17:23	TG
4,4'-DDT [1]	ND	0.0045	0.00048	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:25	TG
4,4'-DDT [1]	ND	0.0047	0.00050	mg/Kg dry	1		SW-846 8081B	6/12/23	6/13/23 17:23	TG
Dieldrin [1]	ND	0.0045	0.00044	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:25	TG
Dieldrin [1]	ND	0.0047	0.00046	mg/Kg dry	1		SW-846 8081B	6/12/23	6/13/23 17:23	TG
Endosulfan I [1]	ND	0.0057	0.0028	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:25	TG
Endosulfan I [1]	ND	0.0059	0.0029	mg/Kg dry	1		SW-846 8081B	6/12/23	6/13/23 17:23	TG
Endosulfan II [1]	ND	0.0091	0.0028	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:25	TG
Endosulfan II [1]	ND	0.0094	0.0029	mg/Kg dry	1		SW-846 8081B	6/12/23	6/13/23 17:23	TG
Endosulfan sulfate [1]	ND	0.0091	0.0028	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:25	TG
Endosulfan sulfate [1]	ND	0.0094	0.0029	mg/Kg dry	1		SW-846 8081B	6/12/23	6/13/23 17:23	TG
Endrin [1]	ND	0.0091	0.0028	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:25	TG
Endrin [1]	ND	0.0094	0.0029	mg/Kg dry	1		SW-846 8081B	6/12/23	6/13/23 17:23	TG
Endrin aldehyde [1]	ND	0.0091	0.0056	mg/Kg dry	1		SW-846 8081B	6/6/23	6/11/23 6:24	TG
Endrin aldehyde [1]	ND	0.0094	0.0057	mg/Kg dry	1		SW-846 8081B	6/12/23	6/13/23 19:24	TG
Endrin ketone [1]	ND	0.0091	0.0026	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:25	TG
Endrin ketone [1]	ND	0.0094	0.0027	mg/Kg dry	1		SW-846 8081B	6/12/23	6/13/23 17:23	TG
Heptachlor [1]	ND	0.0057	0.00055	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:25	TG
Heptachlor [1]	ND	0.0059	0.00057	mg/Kg dry	1		SW-846 8081B	6/12/23	6/13/23 17:23	TG
Heptachlor epoxide [1]	ND	0.0057	0.00051	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:25	TG
Heptachlor epoxide [1]	ND	0.0059	0.00053	mg/Kg dry	1		SW-846 8081B	6/12/23	6/13/23 17:23	TG
Hexachlorobenzene [1]	ND	0.0068	0.0038	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:25	TG
Hexachlorobenzene [1]	ND	0.0070	0.0039	mg/Kg dry	1		SW-846 8081B	6/12/23	6/13/23 17:23	TG
Methoxychlor [1]	ND	0.057	0.0070	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:25	TG
Methoxychlor [1]	ND	0.059	0.0072	mg/Kg dry	1		SW-846 8081B	6/12/23	6/13/23 17:23	TG
Toxaphene [1]	ND	0.11	0.055	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:25	TG
Toxaphene [1]	ND	0.12	0.057	mg/Kg dry	1		SW-846 8081B	6/12/23	6/13/23 17:23	TG

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SD-01

Sampled: 5/24/2023 12:35

Sample ID: 23E3538-07

Sample Matrix: Soil

Sample Flags: H-06

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates	% Recovery			Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	22.1	*		30-150		S-10			6/10/23 20:25	
Decachlorobiphenyl [1]	55.0			30-150					6/13/23 17:23	
Decachlorobiphenyl [2]	68.6			30-150					6/13/23 17:23	
Decachlorobiphenyl [2]	21.9	*		30-150		S-10			6/10/23 20:25	
Tetrachloro-m-xylene [1]	16.9	*		30-150		S-10			6/10/23 20:25	
Tetrachloro-m-xylene [1]	84.0			30-150					6/13/23 17:23	
Tetrachloro-m-xylene [2]	17.0	*		30-150		S-10			6/10/23 20:25	
Tetrachloro-m-xylene [2]	79.8			30-150					6/13/23 17:23	

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SD-01

Sampled: 5/24/2023 12:35

Sample ID: 23E3538-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.4			% Wt	1	H-06	SM 2540G	6/1/23	6/1/23 7:14	DRL
Total Organic Carbon	1800	100	65	mg/Kg	1		Lloyd Kahn Method	6/2/23	6/2/23 10:18	QH

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-FD-01-SW

Sampled: 5/24/2023 00:00

Sample ID: 23E3538-08

Sample Matrix: Surface Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.8	50	2.0	µg/L	1	J	SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Bromoform	ND	1.0	0.41	µg/L	1	V-05	SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/1/23	6/3/23 4:38	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-FD-01-SW

Sampled: 5/24/2023 00:00

Sample ID: 23E3538-08

Sample Matrix: Surface Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/1/23	6/3/23 4:38	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	
Toluene-d8	99.1	70-130	
4-Bromofluorobenzene	88.7	70-130	

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-FD-01-SW

Sampled: 5/24/2023 00:00

Sample ID: 23E3538-08

Sample Matrix: Surface Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	22	1.8	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Benzaldehyde	ND	11	0.79	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Biphenyl	ND	22	1.0	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Caprolactam	ND	11	0.78	µg/L	1	L-04	SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Acenaphthene	ND	5.5	0.86	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Acenaphthylene	ND	5.5	0.70	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Acetophenone	ND	11	0.55	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Anthracene	ND	5.5	0.59	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Benzo(a)anthracene	ND	5.5	0.41	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Benzo(a)pyrene	ND	5.5	0.47	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Benzo(b)fluoranthene	ND	5.5	0.35	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Benzo(g,h,i)perylene	ND	5.5	0.57	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Benzo(k)fluoranthene	ND	5.5	0.50	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Bis(2-chloroethoxy)methane	ND	11	0.63	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Bis(2-chloroethyl)ether	ND	11	0.50	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Bis(2-chloroisopropyl)ether	ND	11	0.82	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Bis(2-Ethylhexyl)phthalate	ND	11	0.35	µg/L	1	V-04	SW-846 8270E	5/31/23	6/10/23 19:36	BGL
4-Bromophenylphenylether	ND	11	0.78	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Butylbenzylphthalate	ND	11	0.43	µg/L	1	V-35	SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Carbazole	ND	11	0.50	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
4-Chloroaniline	ND	11	5.7	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
4-Chloro-3-methylphenol	ND	11	0.69	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
2-Chloronaphthalene	ND	11	0.89	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
2-Chlorophenol	ND	11	0.45	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
4-Chlorophenylphenylether	ND	11	0.95	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Chrysene	ND	5.5	0.50	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Dibenz(a,h)anthracene	ND	5.5	0.52	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Dibenzofuran	ND	5.5	0.93	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Di-n-butylphthalate	ND	11	0.55	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
3,3-Dichlorobenzidine	ND	11	0.50	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
2,4-Dichlorophenol	ND	11	0.51	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Diethylphthalate	ND	11	0.61	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
2,4-Dimethylphenol	ND	11	0.45	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Dimethylphthalate	ND	11	0.48	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
4,6-Dinitro-2-methylphenol	ND	22	2.5	µg/L	1	V-04	SW-846 8270E	5/31/23	6/10/23 19:36	BGL
2,4-Dinitrophenol	ND	11	1.5	µg/L	1	V-04	SW-846 8270E	5/31/23	6/10/23 19:36	BGL
2,4-Dinitrotoluene	ND	11	0.38	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
2,6-Dinitrotoluene	ND	11	0.60	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Di-n-octylphthalate	ND	11	0.36	µg/L	1	V-04	SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Fluoranthene	ND	5.5	0.61	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Fluorene	ND	5.5	0.83	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Hexachlorobenzene	ND	11	0.79	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Hexachlorobutadiene	ND	11	1.3	µg/L	1	B	SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Hexachlorocyclopentadiene	ND	11	3.1	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-FD-01-SW

Sampled: 5/24/2023 00:00

Sample ID: 23E3538-08

Sample Matrix: Surface Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	11	1.4	µg/L	1	L-04	SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Indeno(1,2,3-cd)pyrene	ND	5.5	0.52	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Isophorone	ND	11	0.59	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
2-Methylnaphthalene	ND	5.5	1.0	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
2-Methylphenol	ND	11	0.50	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
3/4-Methylphenol	ND	11	0.52	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Naphthalene	ND	5.5	0.99	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
2-Nitroaniline	ND	11	0.54	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
3-Nitroaniline	ND	11	0.56	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
4-Nitroaniline	ND	11	0.48	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Nitrobenzene	ND	11	0.74	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
2-Nitrophenol	ND	11	0.59	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
4-Nitrophenol	ND	11	1.4	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	11	0.52	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
N-Nitrosodi-n-propylamine	ND	11	0.71	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Pentachlorophenol	ND	11	0.52	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Phenanthrene	ND	5.5	0.78	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Phenol	2.6	11	0.65	µg/L	1	J	SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Pyrene	ND	5.5	0.50	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
1,2,4,5-Tetrachlorobenzene	ND	11	1.3	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
2,4,5-Trichlorophenol	ND	11	0.49	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
2,4,6-Trichlorophenol	ND	11	0.41	µg/L	1		SW-846 8270E	5/31/23	6/10/23 19:36	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	45.5		15-110				6/10/23 19:36			
Phenol-d6	32.4		15-110				6/10/23 19:36			
Nitrobenzene-d5	68.3		30-130				6/10/23 19:36			
2-Fluorobiphenyl	58.4		30-130				6/10/23 19:36			
2,4,6-Tribromophenol	82.5		15-110				6/10/23 19:36			
p-Terphenyl-d14	99.3		30-130				6/10/23 19:36			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-FD-01-SW

Sampled: 5/24/2023 00:00

Sample ID: 23E3538-08

Sample Matrix: Surface Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.031	µg/L	1		SW-846 8270E	5/30/23	6/9/23 12:46	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	27.3		15-110				6/9/23 12:46			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-FD-01-SW

Sampled: 5/24/2023 00:00

Sample ID: 23E3538-08

Sample Matrix: Surface Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.18	0.034	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:09	TG
Aldrin [1]	ND	0.045	0.0066	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:09	TG
alpha-BHC [1]	ND	0.045	0.0033	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:09	TG
beta-BHC [1]	ND	0.045	0.0075	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:09	TG
delta-BHC [1]	ND	0.045	0.0054	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:09	TG
gamma-BHC (Lindane) [1]	ND	0.027	0.0037	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:09	TG
Chlordane [1]	ND	0.18	0.031	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:09	TG
4,4'-DDD [1]	ND	0.036	0.0038	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:09	TG
4,4'-DDE [1]	ND	0.036	0.0046	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:09	TG
4,4'-DDT [1]	ND	0.036	0.0055	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:09	TG
Dieldrin [1]	ND	0.0018	0.00092	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:09	TG
Endosulfan I [1]	ND	0.045	0.0047	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:09	TG
Endosulfan II [1]	ND	0.073	0.0035	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:09	TG
Endosulfan sulfate [1]	ND	0.073	0.0058	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:09	TG
Endrin [1]	ND	0.073	0.0038	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:09	TG
Endrin aldehyde [1]	ND	0.073	0.0040	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:09	TG
Endrin ketone [1]	ND	0.073	0.0036	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:09	TG
Heptachlor [1]	ND	0.045	0.0055	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:09	TG
Heptachlor epoxide [1]	ND	0.045	0.0063	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:09	TG
Hexachlorobenzene [1]	ND	0.045	0.026	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:09	TG
Methoxychlor [1]	ND	0.45	0.0094	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:09	TG
Toxaphene [1]	ND	0.91	0.60	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:09	TG
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
Decachlorobiphenyl [1]	96.9	30-150								
Decachlorobiphenyl [2]	96.7	30-150								
Tetrachloro-m-xylene [1]	80.4	30-150								
Tetrachloro-m-xylene [2]	79.0	30-150								

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-FD-01-SD

Sampled: 5/24/2023 00:00

Sample ID: 23E3538-09

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.079	0.0071	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Acrylonitrile	ND	0.0047	0.00071	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00079	0.00054	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Benzene	ND	0.0016	0.00046	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Bromobenzene	ND	0.0016	0.00037	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Bromochloromethane	ND	0.0016	0.00062	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Bromodichloromethane	ND	0.0016	0.00041	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Bromoform	ND	0.0016	0.00048	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Bromomethane	ND	0.0079	0.0014	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
2-Butanone (MEK)	ND	0.032	0.0049	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
tert-Butyl Alcohol (TBA)	ND	0.079	0.031	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
n-Butylbenzene	ND	0.0016	0.00052	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
sec-Butylbenzene	ND	0.0016	0.00075	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
tert-Butylbenzene	ND	0.0016	0.00068	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00079	0.00062	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Carbon Disulfide	ND	0.0079	0.0063	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Carbon Tetrachloride	ND	0.0016	0.00062	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Chlorobenzene	ND	0.0016	0.00044	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Chlorodibromomethane	ND	0.00079	0.00050	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Chloroethane	ND	0.016	0.00087	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Chloroform	ND	0.0032	0.00049	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Chloromethane	ND	0.0079	0.00078	mg/Kg dry	1	L-04, V-05	SW-846 8260D	6/1/23	6/1/23 14:35	MFF
2-Chlorotoluene	ND	0.0016	0.00040	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
4-Chlorotoluene	ND	0.0016	0.00035	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
1,2-Dibromoethane (EDB)	ND	0.00079	0.00060	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Dibromomethane	ND	0.0016	0.00055	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
1,2-Dichlorobenzene	ND	0.0016	0.00042	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
1,3-Dichlorobenzene	ND	0.0016	0.00044	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
1,4-Dichlorobenzene	ND	0.0016	0.00048	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
trans-1,4-Dichloro-2-butene	ND	0.0032	0.00049	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.016	0.00082	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
1,1-Dichloroethane	ND	0.0016	0.00054	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
1,2-Dichloroethane	ND	0.0016	0.00053	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
1,1-Dichloroethylene	ND	0.0032	0.00065	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
cis-1,2-Dichloroethylene	ND	0.0016	0.00050	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
trans-1,2-Dichloroethylene	ND	0.0016	0.00058	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
1,2-Dichloropropane	ND	0.0016	0.00049	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
1,3-Dichloropropane	ND	0.00079	0.00039	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
2,2-Dichloropropane	ND	0.0016	0.00061	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
1,1-Dichloropropene	ND	0.0016	0.00070	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
cis-1,3-Dichloropropene	ND	0.00079	0.00044	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
trans-1,3-Dichloropropene	ND	0.00079	0.00048	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Diethyl Ether	ND	0.016	0.00065	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-FD-01-SD

Sampled: 5/24/2023 00:00

Sample ID: 23E3538-09

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00079	0.00054	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
1,4-Dioxane	ND	0.079	0.036	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Ethylbenzene	ND	0.0016	0.00047	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Hexachlorobutadiene	ND	0.0016	0.00066	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
2-Hexanone (MBK)	ND	0.016	0.0040	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Isopropylbenzene (Cumene)	ND	0.0016	0.00049	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	0.00049	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Methyl Acetate	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0032	0.00053	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Methyl Cyclohexane	ND	0.0016	0.00061	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Methylene Chloride	ND	0.016	0.00076	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	0.0035	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Naphthalene	ND	0.0032	0.00057	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
n-Propylbenzene	ND	0.0016	0.00038	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Styrene	ND	0.0016	0.00039	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
1,1,1,2-Tetrachloroethane	ND	0.0016	0.00042	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
1,1,2,2-Tetrachloroethane	ND	0.00079	0.00043	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Tetrachloroethylene	ND	0.0016	0.00066	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Tetrahydrofuran	ND	0.0079	0.0028	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Toluene	ND	0.0016	0.00053	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
1,2,3-Trichlorobenzene	ND	0.0016	0.00045	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
1,2,4-Trichlorobenzene	ND	0.0016	0.00048	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
1,3,5-Trichlorobenzene	ND	0.0016	0.00045	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
1,1,1-Trichloroethane	ND	0.0016	0.00060	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
1,1,2-Trichloroethane	ND	0.0016	0.00042	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Trichloroethylene	ND	0.0016	0.00063	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0079	0.00059	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
1,2,3-Trichloropropane	ND	0.0016	0.00070	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0079	0.00068	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
1,2,4-Trimethylbenzene	ND	0.0016	0.00060	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
1,3,5-Trimethylbenzene	ND	0.0016	0.00046	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Vinyl Chloride	ND	0.0079	0.00058	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
m+p Xylene	ND	0.0032	0.0011	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
o-Xylene	ND	0.0016	0.00044	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 14:35	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	95.1		70-130				6/1/23 14:35			
Toluene-d8	97.1		70-130				6/1/23 14:35			
4-Bromofluorobenzene	98.9		70-130				6/1/23 14:35			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-FD-01-SD

Sampled: 5/24/2023 00:00

Sample ID: 23E3538-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	0.074	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Acenaphthylene	ND	0.19	0.076	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Acetophenone	ND	0.39	0.076	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Aniline	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Anthracene	ND	0.19	0.075	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Benzidine	ND	0.75	0.24	mg/Kg dry	1	V-05, V-35	SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Benzo(a)anthracene	0.078	0.19	0.070	mg/Kg dry	1	J	SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Benzo(a)pyrene	0.065	0.19	0.064	mg/Kg dry	1	J	SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Benzo(b)fluoranthene	0.091	0.19	0.065	mg/Kg dry	1	J	SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Benzo(g,h,i)perylene	ND	0.19	0.081	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Benzo(k)fluoranthene	ND	0.19	0.070	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Benzoic Acid	ND	1.1	0.34	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Bis(2-chloroethoxy)methane	ND	0.39	0.076	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Bis(2-chloroethyl)ether	ND	0.39	0.081	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Bis(2-chloroisopropyl)ether	ND	0.39	0.16	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Bis(2-Ethylhexyl)phthalate	ND	0.39	0.079	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
4-Bromophenylphenylether	ND	0.39	0.080	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Butylbenzylphthalate	ND	0.39	0.073	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Carbazole	ND	0.19	0.075	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
4-Chloroaniline	ND	0.75	0.069	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
4-Chloro-3-methylphenol	ND	0.75	0.077	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
2-Chloronaphthalene	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
2-Chlorophenol	ND	0.39	0.078	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
4-Chlorophenylphenylether	ND	0.39	0.075	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Chrysene	0.078	0.19	0.070	mg/Kg dry	1	J	SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Dibenz(a,h)anthracene	ND	0.19	0.075	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Dibenzofuran	ND	0.39	0.076	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Di-n-butylphthalate	ND	0.39	0.071	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
1,2-Dichlorobenzene	ND	0.39	0.074	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
1,3-Dichlorobenzene	ND	0.39	0.072	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
1,4-Dichlorobenzene	ND	0.39	0.073	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
3,3-Dichlorobenzidine	ND	0.19	0.051	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
2,4-Dichlorophenol	ND	0.39	0.075	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Diethylphthalate	ND	0.39	0.075	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
2,4-Dimethylphenol	ND	0.39	0.10	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Dimethylphthalate	ND	0.39	0.080	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
4,6-Dinitro-2-methylphenol	ND	0.39	0.32	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
2,4-Dinitrophenol	ND	0.75	0.34	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
2,4-Dinitrotoluene	ND	0.39	0.077	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
2,6-Dinitrotoluene	ND	0.39	0.088	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Di-n-octylphthalate	ND	0.39	0.077	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
1,2-Diphenylhydrazine/Azobenzene	ND	0.39	0.075	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Fluoranthene	0.15	0.19	0.069	mg/Kg dry	1	J	SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Fluorene	ND	0.19	0.075	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-FD-01-SD

Sampled: 5/24/2023 00:00

Sample ID: 23E3538-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.39	0.080	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Hexachlorobutadiene	ND	0.39	0.078	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Hexachlorocyclopentadiene	ND	0.39	0.25	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Hexachloroethane	ND	0.39	0.076	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Indeno(1,2,3-cd)pyrene	ND	0.19	0.085	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Isophorone	ND	0.39	0.079	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
1-Methylnaphthalene	ND	0.19	0.079	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
2-Methylnaphthalene	ND	0.19	0.076	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
2-Methylphenol	ND	0.39	0.077	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
3/4-Methylphenol	ND	0.39	0.084	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Naphthalene	ND	0.19	0.077	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
2-Nitroaniline	ND	0.39	0.077	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
3-Nitroaniline	ND	0.39	0.091	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
4-Nitroaniline	ND	0.39	0.065	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Nitrobenzene	ND	0.39	0.084	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
2-Nitrophenol	ND	0.39	0.080	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
4-Nitrophenol	ND	0.75	0.16	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
N-Nitrosodimethylamine	ND	0.39	0.11	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
N-Nitrosodiphenylamine/Diphenylamine	ND	0.39	0.078	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
N-Nitrosodi-n-propylamine	ND	0.39	0.084	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Pentachloronitrobenzene	ND	0.39	0.081	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Pentachlorophenol	ND	0.39	0.17	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Phenanthrene	ND	0.19	0.076	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Phenol	ND	0.39	0.090	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Pyrene	0.16	0.19	0.077	mg/Kg dry	1	J	SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Pyridine	ND	0.39	0.062	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
1,2,4,5-Tetrachlorobenzene	ND	0.39	0.079	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
1,2,4-Trichlorobenzene	ND	0.39	0.075	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
2,4,5-Trichlorophenol	ND	0.39	0.075	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
2,4,6-Trichlorophenol	ND	0.39	0.074	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 18:41	AR2
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	67.6		30-130				6/7/23 18:41			
Phenol-d6	70.7		30-130				6/7/23 18:41			
Nitrobenzene-d5	66.3		30-130				6/7/23 18:41			
2-Fluorobiphenyl	74.6		30-130				6/7/23 18:41			
2,4,6-Tribromophenol	76.0		30-130				6/7/23 18:41			
p-Terphenyl-d14	89.6		30-130				6/7/23 18:41			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-FD-01-SD

Sampled: 5/24/2023 00:00

Sample ID: 23E3538-09

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.057	0.024	mg/Kg dry	1		SW-846 8270E	5/26/23	6/13/23 9:17	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	55.5		15-110				6/13/23 9:17			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-FD-01-SD

Sampled: 5/24/2023 00:00

Sample ID: 23E3538-09

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	0.0068	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:53	TG
Aldrin [1]	ND	0.0057	0.00056	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:53	TG
alpha-BHC [1]	ND	0.0057	0.0031	mg/Kg dry	1	V-20	SW-846 8081B	6/6/23	6/10/23 20:53	TG
beta-BHC [1]	ND	0.0057	0.0026	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:53	TG
delta-BHC [1]	ND	0.0057	0.0038	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:53	TG
gamma-BHC (Lindane) [1]	ND	0.0023	0.00048	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:53	TG
Chlordane [1]	ND	0.023	0.0080	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:53	TG
4,4'-DDD [1]	ND	0.0046	0.00051	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:53	TG
4,4'-DDE [1]	ND	0.0046	0.00053	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:53	TG
4,4'-DDT [1]	ND	0.0046	0.00049	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:53	TG
Dieldrin [1]	ND	0.0046	0.00044	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:53	TG
Endosulfan I [1]	ND	0.0057	0.0028	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:53	TG
Endosulfan II [1]	ND	0.0091	0.0028	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:53	TG
Endosulfan sulfate [1]	ND	0.0091	0.0028	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:53	TG
Endrin [1]	ND	0.0091	0.0028	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:53	TG
Endrin aldehyde [1]	ND	0.0091	0.0056	mg/Kg dry	1		SW-846 8081B	6/6/23	6/11/23 6:52	TG
Endrin ketone [1]	ND	0.0091	0.0026	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:53	TG
Heptachlor [1]	ND	0.0057	0.00056	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:53	TG
Heptachlor epoxide [1]	ND	0.0057	0.00051	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:53	TG
Hexachlorobenzene [1]	ND	0.0068	0.0038	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:53	TG
Methoxychlor [1]	ND	0.057	0.0071	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:53	TG
Toxaphene [1]	ND	0.11	0.055	mg/Kg dry	1		SW-846 8081B	6/6/23	6/10/23 20:53	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	68.5		30-150				6/10/23 20:53			
Decachlorobiphenyl [2]	70.3		30-150				6/10/23 20:53			
Tetrachloro-m-xylene [1]	67.8		30-150				6/10/23 20:53			
Tetrachloro-m-xylene [2]	66.3		30-150				6/10/23 20:53			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-FD-01-SD

Sampled: 5/24/2023 00:00

Sample ID: 23E3538-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.6			% Wt	1	H-06	SM 2540G	6/1/23	6/1/23 7:14	DRL
Total Organic Carbon	1300	100	65	mg/Kg	1		Lloyd Kahn Method	6/2/23	6/2/23 11:00	QH

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SW-03

Sampled: 5/24/2023 13:45

Sample ID: 23E3538-10

Sample Matrix: Surface Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.5	50	2.0	µg/L	1	J	SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Benzene	ND	1.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Bromochloromethane	ND	1.0	0.28	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Bromodichloromethane	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Bromoform	ND	1.0	0.41	µg/L	1	V-05	SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Bromomethane	ND	2.0	1.3	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
2-Butanone (MEK)	ND	20	1.7	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Carbon Disulfide	ND	5.0	1.6	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Carbon Tetrachloride	ND	5.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Chlorodibromomethane	ND	0.50	0.20	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Chloroethane	ND	2.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Chloromethane	ND	2.0	0.50	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Cyclohexane	ND	5.0	1.8	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.85	µg/L	1	V-05	SW-846 8260D	6/1/23	6/3/23 5:04	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
1,2-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
1,3-Dichlorobenzene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
1,4-Dichlorobenzene	ND	1.0	0.13	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
1,1-Dichloroethane	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
1,2-Dichloroethane	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
1,1-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
1,2-Dichloropropane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
cis-1,3-Dichloropropene	ND	0.50	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
1,4-Dioxane	ND	50	18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Ethylbenzene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
2-Hexanone (MBK)	ND	10	1.2	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Methyl Acetate	ND	1.0	0.61	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Methyl Cyclohexane	ND	1.0	0.16	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Methylene Chloride	ND	5.0	0.18	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.3	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.14	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Tetrachloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Toluene	ND	1.0	0.22	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.34	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.30	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SW-03

Sampled: 5/24/2023 13:45

Sample ID: 23E3538-10

Sample Matrix: Surface Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
1,1,2-Trichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Trichloroethylene	ND	1.0	0.17	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.21	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Vinyl Chloride	ND	2.0	0.24	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF
Xylenes (total)	ND	1.0	1.0	µg/L	1		SW-846 8260D	6/1/23	6/3/23 5:04	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	101	70-130	
Toluene-d8	97.7	70-130	
4-Bromofluorobenzene	89.4	70-130	

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SW-03

Sampled: 5/24/2023 13:45

Sample ID: 23E3538-10

Sample Matrix: Surface Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Atrazine	ND	18	1.5	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Benzaldehyde	ND	8.9	0.65	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Biphenyl	ND	18	0.82	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Caprolactam	ND	8.9	0.64	µg/L	1	L-04	SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Acenaphthene	ND	4.5	0.70	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Acenaphthylene	ND	4.5	0.57	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Acetophenone	ND	8.9	0.45	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Anthracene	ND	4.5	0.48	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Benzo(a)anthracene	ND	4.5	0.34	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Benzo(a)pyrene	ND	4.5	0.39	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Benzo(b)fluoranthene	ND	4.5	0.29	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Benzo(g,h,i)perylene	ND	4.5	0.47	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Benzo(k)fluoranthene	ND	4.5	0.41	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Bis(2-chloroethoxy)methane	ND	8.9	0.51	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Bis(2-chloroethyl)ether	ND	8.9	0.41	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Bis(2-chloroisopropyl)ether	ND	8.9	0.67	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Bis(2-Ethylhexyl)phthalate	ND	8.9	0.29	µg/L	1	V-04	SW-846 8270E	5/31/23	6/10/23 22:32	BGL
4-Bromophenylphenylether	ND	8.9	0.63	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Butylbenzylphthalate	ND	8.9	0.35	µg/L	1	V-35	SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Carbazole	ND	8.9	0.41	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
4-Chloroaniline	ND	8.9	4.6	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
4-Chloro-3-methylphenol	ND	8.9	0.57	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
2-Chloronaphthalene	ND	8.9	0.73	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
2-Chlorophenol	ND	8.9	0.37	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
4-Chlorophenylphenylether	ND	8.9	0.78	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Chrysene	ND	4.5	0.41	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Dibenz(a,h)anthracene	ND	4.5	0.42	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Dibenzofuran	ND	4.5	0.76	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Di-n-butylphthalate	ND	8.9	0.45	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
3,3-Dichlorobenzidine	ND	8.9	0.41	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
2,4-Dichlorophenol	ND	8.9	0.42	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Diethylphthalate	ND	8.9	0.50	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
2,4-Dimethylphenol	ND	8.9	0.37	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Dimethylphthalate	ND	8.9	0.39	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
4,6-Dinitro-2-methylphenol	ND	18	2.1	µg/L	1	V-04	SW-846 8270E	5/31/23	6/10/23 22:32	BGL
2,4-Dinitrophenol	ND	8.9	1.2	µg/L	1	V-04	SW-846 8270E	5/31/23	6/10/23 22:32	BGL
2,4-Dinitrotoluene	ND	8.9	0.31	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
2,6-Dinitrotoluene	ND	8.9	0.49	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Di-n-octylphthalate	ND	8.9	0.29	µg/L	1	V-04	SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Fluoranthene	ND	4.5	0.50	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Fluorene	ND	4.5	0.68	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Hexachlorobenzene	ND	8.9	0.64	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Hexachlorobutadiene	ND	8.9	1.1	µg/L	1	L-04	SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Hexachlorocyclopentadiene	ND	8.9	2.5	µg/L	1	L-04	SW-846 8270E	5/31/23	6/10/23 22:32	BGL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SW-03

Sampled: 5/24/2023 13:45

Sample ID: 23E3538-10

Sample Matrix: Surface Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	8.9	1.1	µg/L	1	L-04	SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Indeno(1,2,3-cd)pyrene	ND	4.5	0.42	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Isophorone	ND	8.9	0.48	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
2-Methylnaphthalene	ND	4.5	0.83	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
2-Methylphenol	ND	8.9	0.41	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
3/4-Methylphenol	ND	8.9	0.43	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Naphthalene	ND	4.5	0.81	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
2-Nitroaniline	ND	8.9	0.44	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
3-Nitroaniline	ND	8.9	0.46	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
4-Nitroaniline	ND	8.9	0.39	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Nitrobenzene	ND	8.9	0.60	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
2-Nitrophenol	ND	8.9	0.48	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
4-Nitrophenol	ND	8.9	1.1	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	8.9	0.43	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
N-Nitrosodi-n-propylamine	ND	8.9	0.58	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Pentachlorophenol	ND	8.9	0.43	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Phenanthrene	ND	4.5	0.64	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Phenol	1.2	8.9	0.53	µg/L	1	J	SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Pyrene	ND	4.5	0.41	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
1,2,4,5-Tetrachlorobenzene	ND	8.9	1.1	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
2,4,5-Trichlorophenol	ND	8.9	0.40	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
2,4,6-Trichlorophenol	ND	8.9	0.34	µg/L	1		SW-846 8270E	5/31/23	6/10/23 22:32	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	52.3		15-110				6/10/23 22:32			
Phenol-d6	34.2		15-110				6/10/23 22:32			
Nitrobenzene-d5	76.3		30-130				6/10/23 22:32			
2-Fluorobiphenyl	74.6		30-130				6/10/23 22:32			
2,4,6-Tribromophenol	79.3		15-110				6/10/23 22:32			
p-Terphenyl-d14	94.4		30-130				6/10/23 22:32			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SW-03

Sampled: 5/24/2023 13:45

Sample ID: 23E3538-10

Sample Matrix: Surface Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	0.031	µg/L	1		SW-846 8270E	5/31/23	6/9/23 13:06	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	33.6		15-110				6/9/23 13:06			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SW-03

Sampled: 5/24/2023 13:45

Sample ID: 23E3538-10

Sample Matrix: Surface Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.18	0.034	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:32	TG
Aldrin [1]	ND	0.045	0.0065	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:32	TG
alpha-BHC [1]	ND	0.045	0.0033	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:32	TG
beta-BHC [1]	ND	0.045	0.0074	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:32	TG
delta-BHC [1]	ND	0.045	0.0053	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:32	TG
gamma-BHC (Lindane) [1]	ND	0.027	0.0037	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:32	TG
Chlordane [1]	ND	0.18	0.030	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:32	TG
4,4'-DDD [1]	ND	0.036	0.0038	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:32	TG
4,4'-DDE [1]	ND	0.036	0.0045	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:32	TG
4,4'-DDT [1]	ND	0.036	0.0055	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:32	TG
Dieldrin [1]	ND	0.0018	0.00091	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:32	TG
Endosulfan I [1]	ND	0.045	0.0047	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:32	TG
Endosulfan II [1]	ND	0.072	0.0035	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:32	TG
Endosulfan sulfate [1]	ND	0.072	0.0058	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:32	TG
Endrin [1]	ND	0.072	0.0037	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:32	TG
Endrin aldehyde [1]	ND	0.072	0.0040	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:32	TG
Endrin ketone [1]	ND	0.072	0.0035	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:32	TG
Heptachlor [1]	ND	0.045	0.0055	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:32	TG
Heptachlor epoxide [1]	ND	0.045	0.0062	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:32	TG
Hexachlorobenzene [1]	ND	0.045	0.025	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:32	TG
Methoxychlor [1]	ND	0.45	0.0093	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:32	TG
Toxaphene [1]	ND	0.90	0.60	µg/L	1		SW-846 8081B	5/30/23	6/9/23 3:32	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	83.3		30-150				6/9/23 3:32			
Decachlorobiphenyl [2]	83.9		30-150				6/9/23 3:32			
Tetrachloro-m-xylene [1]	66.6		30-150				6/9/23 3:32			
Tetrachloro-m-xylene [2]	64.4		30-150				6/9/23 3:32			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SD-03

Sampled: 5/24/2023 13:55

Sample ID: 23E3538-11

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.015	0.067	0.0061	mg/Kg dry	1	J	SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Acrylonitrile	ND	0.0040	0.00060	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00067	0.00046	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Benzene	ND	0.0013	0.00039	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Bromobenzene	ND	0.0013	0.00031	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Bromochloromethane	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Bromodichloromethane	ND	0.0013	0.00035	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Bromoform	ND	0.0013	0.00041	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Bromomethane	ND	0.0067	0.0012	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
2-Butanone (MEK)	ND	0.027	0.0042	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
tert-Butyl Alcohol (TBA)	ND	0.067	0.027	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
n-Butylbenzene	ND	0.0013	0.00044	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
sec-Butylbenzene	ND	0.0013	0.00064	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
tert-Butylbenzene	ND	0.0013	0.00058	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00067	0.00053	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Carbon Disulfide	ND	0.0067	0.0054	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Carbon Tetrachloride	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Chlorobenzene	ND	0.0013	0.00038	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Chlorodibromomethane	ND	0.00067	0.00043	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Chloroethane	ND	0.013	0.00074	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Chloroform	ND	0.0027	0.00042	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Chloromethane	ND	0.0067	0.00067	mg/Kg dry	1	L-04, V-05	SW-846 8260D	6/1/23	6/1/23 15:00	MFF
2-Chlorotoluene	ND	0.0013	0.00034	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
4-Chlorotoluene	ND	0.0013	0.00030	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0013	0.00053	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
1,2-Dibromoethane (EDB)	ND	0.00067	0.00052	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Dibromomethane	ND	0.0013	0.00047	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
1,2-Dichlorobenzene	ND	0.0013	0.00036	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
1,3-Dichlorobenzene	ND	0.0013	0.00037	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
1,4-Dichlorobenzene	ND	0.0013	0.00041	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
trans-1,4-Dichloro-2-butene	ND	0.0027	0.00042	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.013	0.00070	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
1,1-Dichloroethane	ND	0.0013	0.00046	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
1,2-Dichloroethane	ND	0.0013	0.00045	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
1,1-Dichloroethylene	ND	0.0027	0.00055	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
cis-1,2-Dichloroethylene	ND	0.0013	0.00043	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
trans-1,2-Dichloroethylene	ND	0.0013	0.00049	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
1,2-Dichloropropane	ND	0.0013	0.00042	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
1,3-Dichloropropane	ND	0.00067	0.00033	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
2,2-Dichloropropane	ND	0.0013	0.00052	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
1,1-Dichloropropene	ND	0.0013	0.00060	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
cis-1,3-Dichloropropene	ND	0.00067	0.00038	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
trans-1,3-Dichloropropene	ND	0.00067	0.00041	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Diethyl Ether	ND	0.013	0.00055	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SD-03

Sampled: 5/24/2023 13:55

Sample ID: 23E3538-11

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.00067	0.00046	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
1,4-Dioxane	ND	0.067	0.031	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Ethylbenzene	ND	0.0013	0.00040	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Hexachlorobutadiene	ND	0.0013	0.00057	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
2-Hexanone (MBK)	ND	0.013	0.0034	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Isopropylbenzene (Cumene)	ND	0.0013	0.00042	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0013	0.00042	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Methyl Acetate	ND	0.0013	0.00097	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0027	0.00045	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Methyl Cyclohexane	ND	0.0013	0.00052	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Methylene Chloride	ND	0.013	0.00065	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.013	0.0030	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Naphthalene	ND	0.0027	0.00048	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
n-Propylbenzene	ND	0.0013	0.00032	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Styrene	ND	0.0013	0.00033	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
1,1,1,2-Tetrachloroethane	ND	0.0013	0.00036	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
1,1,2,2-Tetrachloroethane	ND	0.00067	0.00037	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Tetrachloroethylene	ND	0.0013	0.00057	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Tetrahydrofuran	ND	0.0067	0.0024	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Toluene	ND	0.0013	0.00046	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
1,2,3-Trichlorobenzene	ND	0.0013	0.00038	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
1,2,4-Trichlorobenzene	ND	0.0013	0.00041	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
1,3,5-Trichlorobenzene	ND	0.0013	0.00038	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
1,1,1-Trichloroethane	ND	0.0013	0.00052	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
1,1,2-Trichloroethane	ND	0.0013	0.00036	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Trichloroethylene	ND	0.0013	0.00054	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0067	0.00050	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
1,2,3-Trichloropropane	ND	0.0013	0.00060	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0067	0.00058	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
1,2,4-Trimethylbenzene	ND	0.0013	0.00051	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
1,3,5-Trimethylbenzene	ND	0.0013	0.00039	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Vinyl Chloride	ND	0.0067	0.00050	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
m+p Xylene	ND	0.0027	0.00096	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
o-Xylene	ND	0.0013	0.00038	mg/Kg dry	1		SW-846 8260D	6/1/23	6/1/23 15:00	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	96.4		70-130				6/1/23 15:00			
Toluene-d8	95.5		70-130				6/1/23 15:00			
4-Bromofluorobenzene	95.8		70-130				6/1/23 15:00			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SD-03

Sampled: 5/24/2023 13:55

Sample ID: 23E3538-11

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.24	0.092	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Acenaphthylene	ND	0.24	0.094	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Acetophenone	ND	0.48	0.094	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Aniline	ND	0.48	0.082	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Anthracene	ND	0.24	0.093	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Benzidine	ND	0.93	0.29	mg/Kg dry	1	V-05, V-35	SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Benzo(a)anthracene	0.093	0.24	0.087	mg/Kg dry	1	J	SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Benzo(a)pyrene	0.096	0.24	0.079	mg/Kg dry	1	J	SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Benzo(b)fluoranthene	0.13	0.24	0.081	mg/Kg dry	1	J	SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Benzo(g,h,i)perylene	ND	0.24	0.10	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Benzo(k)fluoranthene	ND	0.24	0.087	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Benzoic Acid	ND	1.4	0.42	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Bis(2-chloroethoxy)methane	ND	0.48	0.094	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Bis(2-chloroethyl)ether	ND	0.48	0.10	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Bis(2-chloroisopropyl)ether	ND	0.48	0.20	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Bis(2-Ethylhexyl)phthalate	0.18	0.48	0.098	mg/Kg dry	1	J	SW-846 8270E	6/6/23	6/7/23 19:02	AR2
4-Bromophenylphenylether	ND	0.48	0.099	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Butylbenzylphthalate	ND	0.48	0.090	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Carbazole	ND	0.24	0.093	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
4-Chloroaniline	ND	0.93	0.085	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
4-Chloro-3-methylphenol	ND	0.93	0.095	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
2-Chloronaphthalene	ND	0.48	0.085	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
2-Chlorophenol	ND	0.48	0.097	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
4-Chlorophenylphenylether	ND	0.48	0.093	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Chrysene	0.11	0.24	0.087	mg/Kg dry	1	J	SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Dibenz(a,h)anthracene	ND	0.24	0.093	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Dibenzofuran	ND	0.48	0.094	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Di-n-butylphthalate	ND	0.48	0.088	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
1,2-Dichlorobenzene	ND	0.48	0.092	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
1,3-Dichlorobenzene	ND	0.48	0.089	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
1,4-Dichlorobenzene	ND	0.48	0.091	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
3,3-Dichlorobenzidine	ND	0.24	0.063	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
2,4-Dichlorophenol	ND	0.48	0.093	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Diethylphthalate	ND	0.48	0.093	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
2,4-Dimethylphenol	ND	0.48	0.13	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Dimethylphthalate	ND	0.48	0.099	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
4,6-Dinitro-2-methylphenol	ND	0.48	0.39	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
2,4-Dinitrophenol	ND	0.93	0.42	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
2,4-Dinitrotoluene	ND	0.48	0.096	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
2,6-Dinitrotoluene	ND	0.48	0.11	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Di-n-octylphthalate	ND	0.48	0.095	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
1,2-Diphenylhydrazine/Azobenzene	ND	0.48	0.094	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Fluoranthene	0.20	0.24	0.086	mg/Kg dry	1	J	SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Fluorene	ND	0.24	0.094	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SD-03

Sampled: 5/24/2023 13:55

Sample ID: 23E3538-11

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.48	0.10	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Hexachlorobutadiene	ND	0.48	0.097	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Hexachlorocyclopentadiene	ND	0.48	0.31	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Hexachloroethane	ND	0.48	0.094	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Indeno(1,2,3-cd)pyrene	ND	0.24	0.11	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Isophorone	ND	0.48	0.098	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
1-Methylnaphthalene	ND	0.24	0.098	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
2-Methylnaphthalene	ND	0.24	0.094	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
2-Methylphenol	ND	0.48	0.096	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
3/4-Methylphenol	ND	0.48	0.10	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Naphthalene	ND	0.24	0.096	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
2-Nitroaniline	ND	0.48	0.096	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
3-Nitroaniline	ND	0.48	0.11	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
4-Nitroaniline	ND	0.48	0.081	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Nitrobenzene	ND	0.48	0.10	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
2-Nitrophenol	ND	0.48	0.099	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
4-Nitrophenol	ND	0.93	0.20	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
N-Nitrosodimethylamine	ND	0.48	0.14	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
N-Nitrosodiphenylamine/Diphenylamine	ND	0.48	0.097	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
N-Nitrosodi-n-propylamine	ND	0.48	0.10	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Pentachloronitrobenzene	ND	0.48	0.10	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Pentachlorophenol	ND	0.48	0.22	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Phenanthrene	0.11	0.24	0.094	mg/Kg dry	1	J	SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Phenol	ND	0.48	0.11	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Pyrene	0.22	0.24	0.096	mg/Kg dry	1	J	SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Pyridine	ND	0.48	0.077	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
1,2,4,5-Tetrachlorobenzene	ND	0.48	0.098	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
1,2,4-Trichlorobenzene	ND	0.48	0.093	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
2,4,5-Trichlorophenol	ND	0.48	0.093	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
2,4,6-Trichlorophenol	ND	0.48	0.091	mg/Kg dry	1		SW-846 8270E	6/6/23	6/7/23 19:02	AR2
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	59.8		30-130				6/7/23 19:02			
Phenol-d6	65.3		30-130				6/7/23 19:02			
Nitrobenzene-d5	58.6		30-130				6/7/23 19:02			
2-Fluorobiphenyl	67.3		30-130				6/7/23 19:02			
2,4,6-Tribromophenol	64.8		30-130				6/7/23 19:02			
p-Terphenyl-d14	82.1		30-130				6/7/23 19:02			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SD-03

Sampled: 5/24/2023 13:55

Sample ID: 23E3538-11

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.071	0.029	mg/Kg dry	1		SW-846 8270E	5/26/23	6/13/23 9:38	SPF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,4-Dioxane-d8	43.0		15-110				6/13/23 9:38			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SD-03

Sampled: 5/24/2023 13:55

Sample ID: 23E3538-11

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.28	0.084	mg/Kg dry	10		SW-846 8081B	6/6/23	6/10/23 21:22	TG
Aldrin [1]	ND	0.071	0.0070	mg/Kg dry	10		SW-846 8081B	6/6/23	6/10/23 21:22	TG
alpha-BHC [1]	ND	0.071	0.038	mg/Kg dry	10	V-20	SW-846 8081B	6/6/23	6/10/23 21:22	TG
beta-BHC [1]	ND	0.071	0.032	mg/Kg dry	10		SW-846 8081B	6/6/23	6/10/23 21:22	TG
delta-BHC [1]	ND	0.071	0.047	mg/Kg dry	10		SW-846 8081B	6/6/23	6/10/23 21:22	TG
gamma-BHC (Lindane) [1]	ND	0.028	0.0060	mg/Kg dry	10		SW-846 8081B	6/6/23	6/10/23 21:22	TG
Chlordane [1]	ND	0.28	0.10	mg/Kg dry	10		SW-846 8081B	6/6/23	6/10/23 21:22	TG
4,4'-DDD [1]	ND	0.057	0.0063	mg/Kg dry	10		SW-846 8081B	6/6/23	6/10/23 21:22	TG
4,4'-DDE [1]	ND	0.057	0.0066	mg/Kg dry	10		SW-846 8081B	6/6/23	6/10/23 21:22	TG
4,4'-DDT [1]	ND	0.057	0.0060	mg/Kg dry	10		SW-846 8081B	6/6/23	6/10/23 21:22	TG
Dieldrin [1]	ND	0.057	0.0055	mg/Kg dry	10		SW-846 8081B	6/6/23	6/10/23 21:22	TG
Endosulfan I [1]	ND	0.071	0.034	mg/Kg dry	10		SW-846 8081B	6/6/23	6/10/23 21:22	TG
Endosulfan II [1]	ND	0.11	0.035	mg/Kg dry	10		SW-846 8081B	6/6/23	6/10/23 21:22	TG
Endosulfan sulfate [1]	ND	0.11	0.035	mg/Kg dry	10		SW-846 8081B	6/6/23	6/10/23 21:22	TG
Endrin [1]	ND	0.11	0.035	mg/Kg dry	10		SW-846 8081B	6/6/23	6/10/23 21:22	TG
Endrin aldehyde [1]	ND	0.11	0.069	mg/Kg dry	10		SW-846 8081B	6/6/23	6/11/23 7:21	TG
Endrin ketone [1]	ND	0.11	0.033	mg/Kg dry	10		SW-846 8081B	6/6/23	6/10/23 21:22	TG
Heptachlor [1]	ND	0.071	0.0069	mg/Kg dry	10		SW-846 8081B	6/6/23	6/10/23 21:22	TG
Heptachlor epoxide [1]	ND	0.071	0.0064	mg/Kg dry	10		SW-846 8081B	6/6/23	6/10/23 21:22	TG
Hexachlorobenzene [1]	ND	0.085	0.048	mg/Kg dry	10		SW-846 8081B	6/6/23	6/10/23 21:22	TG
Methoxychlor [1]	ND	0.71	0.087	mg/Kg dry	10		SW-846 8081B	6/6/23	6/10/23 21:22	TG
Toxaphene [1]	ND	1.4	0.69	mg/Kg dry	10		SW-846 8081B	6/6/23	6/10/23 21:22	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	74.5		30-150				6/10/23 21:22			
Decachlorobiphenyl [2]	74.2		30-150				6/10/23 21:22			
Tetrachloro-m-xylene [1]	73.9		30-150				6/10/23 21:22			
Tetrachloro-m-xylene [2]	73.7		30-150				6/10/23 21:22			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3538

Date Received: 5/25/2023

Field Sample #: 518014-SD-03

Sampled: 5/24/2023 13:55

Sample ID: 23E3538-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	70.6			% Wt	1	H-06	SM 2540G	6/1/23	6/1/23 7:14	DRL
Total Organic Carbon	6500	100	65	mg/Kg	1		Lloyd Kahn Method	6/2/23	6/2/23 11:28	QH

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Sample Extraction Data**Lloyd Kahn Method**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
23E3538-05 [518014-SD-02]	B342006	1.00	1.00	06/02/23
23E3538-07 [518014-SD-01]	B342006	1.00	1.00	06/02/23
23E3538-09 [518014-FD-01-SD]	B342006	1.00	1.00	06/02/23
23E3538-11 [518014-SD-03]	B342006	1.00	1.00	06/02/23

Prep Method:% Solids **Analytical Method:**SM 2540G

Lab Number [Field ID]	Batch	Date
23E3538-05 [518014-SD-02]	B341922	06/01/23
23E3538-07 [518014-SD-01]	B341922	06/01/23
23E3538-09 [518014-FD-01-SD]	B341922	06/01/23
23E3538-11 [518014-SD-03]	B341922	06/01/23

Prep Method:SW-846 3546 **Analytical Method:**SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
23E3538-05 [518014-SD-02]	B342469	10.0	10.0	06/06/23
23E3538-07 [518014-SD-01]	B342469	10.3	10.0	06/06/23
23E3538-09 [518014-FD-01-SD]	B342469	10.0	10.0	06/06/23
23E3538-11 [518014-SD-03]	B342469	10.0	10.0	06/06/23

Prep Method:SW-846 3546 **Analytical Method:**SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
23E3538-07RE1 [518014-SD-01]	B342941	10.0	10.0	06/12/23

Prep Method:SW-846 3510C **Analytical Method:**SW-846 8081B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E3538-01 [518014-MW-19]	B341714	110	2.00	05/30/23
23E3538-02 [518014-MW-16D]	B341714	104	2.00	05/30/23
23E3538-03 [518014-MW-15D]	B341714	105	2.00	05/30/23
23E3538-04 [518014-SW-02]	B341714	111	2.00	05/30/23
23E3538-06 [518014-SW-01]	B341714	110	2.00	05/30/23
23E3538-08 [518014-FD-01-SW]	B341714	110	2.00	05/30/23
23E3538-10 [518014-SW-03]	B341714	111	2.00	05/30/23

Prep Method:SW-846 5035 **Analytical Method:**SW-846 8260D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
23E3538-07 [518014-SD-01]	B341940	8.00	10.0	06/01/23
23E3538-09 [518014-FD-01-SD]	B341940	7.23	10.0	06/01/23
23E3538-11 [518014-SD-03]	B341940	10.5	10.0	06/01/23

Prep Method:SW-846 5035 **Analytical Method:**SW-846 8260D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date

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Sample Extraction Data

Prep Method:SW-846 5035 Analytical Method:SW-846 8260D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
23E3538-05 [518014-SD-02]	B342085	7.24	10.0	06/02/23

Prep Method:SW-846 5030B Analytical Method:SW-846 8260D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E3538-01 [518014-MW-19]	B341916	5	5.00	06/01/23
23E3538-02 [518014-MW-16D]	B341916	5	5.00	06/01/23
23E3538-03 [518014-MW-15D]	B341916	5	5.00	06/01/23
23E3538-04 [518014-SW-02]	B341916	5	5.00	06/01/23
23E3538-06 [518014-SW-01]	B341916	5	5.00	06/01/23
23E3538-08 [518014-FD-01-SW]	B341916	5	5.00	06/01/23
23E3538-10 [518014-SW-03]	B341916	5	5.00	06/01/23

Prep Method:SW-846 3546 Analytical Method:SW-846 8270E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
23E3538-05 [518014-SD-02]	B341567	20.0	1.00	05/26/23
23E3538-07 [518014-SD-01]	B341567	20.0	1.00	05/26/23
23E3538-09 [518014-FD-01-SD]	B341567	20.0	1.00	05/26/23
23E3538-11 [518014-SD-03]	B341567	20.0	1.00	05/26/23

Prep Method:SW-846 3546 Analytical Method:SW-846 8270E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
23E3538-05 [518014-SD-02]	B342397	30.0	1.00	06/06/23
23E3538-07 [518014-SD-01]	B342397	30.0	1.00	06/06/23
23E3538-09 [518014-FD-01-SD]	B342397	30.0	1.00	06/06/23
23E3538-11 [518014-SD-03]	B342397	30.0	1.00	06/06/23

Prep Method:SW-846 3510C Analytical Method:SW-846 8270E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E3538-01 [518014-MW-19]	B341710	108	1.00	05/30/23
23E3538-02 [518014-MW-16D]	B341710	100	1.00	05/30/23

Prep Method:SW-846 3510C Analytical Method:SW-846 8270E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E3538-01 [518014-MW-19]	B341711	1040	1.00	05/30/23
23E3538-08 [518014-FD-01-SW]	B341711	1040	1.00	05/30/23

Prep Method:SW-846 3510C Analytical Method:SW-846 8270E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E3538-02 [518014-MW-16D]	B341817	1040	1.00	05/31/23
23E3538-03 [518014-MW-15D]	B341817	1030	1.00	05/31/23
23E3538-04 [518014-SW-02]	B341817	1040	1.00	05/31/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**Sample Extraction Data****Prep Method:SW-846 3510C Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E3538-06 [518014-SW-01]	B341817	1040	1.00	05/31/23
23E3538-10 [518014-SW-03]	B341817	1040	1.00	05/31/23

Prep Method:SW-846 3510C Analytical Method:SW-846 8270E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E3538-03 [518014-MW-15D]	B341819	107	1.00	05/31/23
23E3538-04 [518014-SW-02]	B341819	117	1.00	05/31/23
23E3538-06 [518014-SW-01]	B341819	109	1.00	05/31/23
23E3538-10 [518014-SW-03]	B341819	112	1.00	05/31/23

Prep Method:SW-846 3510C Analytical Method:SW-846 8270E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E3538-08 [518014-FD-01-SW]	B341823	110	1.00	05/31/23

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch B341916 - SW-846 5030B									
Blank (B341916-BLK1)				Prepared: 06/01/23 Analyzed: 06/02/23					
Acetone	ND	50	µg/L						
Benzene	ND	1.0	µg/L						
Bromochloromethane	ND	1.0	µg/L						
Bromodichloromethane	ND	0.50	µg/L						
Bromoform	ND	1.0	µg/L						V-05
Bromomethane	ND	2.0	µg/L						
2-Butanone (MEK)	ND	20	µg/L						
Carbon Disulfide	ND	5.0	µg/L						
Carbon Tetrachloride	ND	5.0	µg/L						
Chlorobenzene	ND	1.0	µg/L						
Chlorodibromomethane	ND	0.50	µg/L						
Chloroethane	ND	2.0	µg/L						
Chloroform	ND	2.0	µg/L						
Chloromethane	ND	2.0	µg/L						
Cyclohexane	ND	5.0	µg/L						
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L						V-05
1,2-Dibromoethane (EDB)	ND	0.50	µg/L						
1,2-Dichlorobenzene	ND	1.0	µg/L						
1,3-Dichlorobenzene	ND	1.0	µg/L						
1,4-Dichlorobenzene	ND	1.0	µg/L						
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L						
1,1-Dichloroethane	ND	1.0	µg/L						
1,2-Dichloroethane	ND	1.0	µg/L						
1,1-Dichloroethylene	ND	1.0	µg/L						
cis-1,2-Dichloroethylene	ND	1.0	µg/L						
trans-1,2-Dichloroethylene	ND	1.0	µg/L						
1,2-Dichloropropane	ND	1.0	µg/L						
cis-1,3-Dichloropropene	ND	0.50	µg/L						
trans-1,3-Dichloropropene	ND	0.50	µg/L						
1,4-Dioxane	ND	50	µg/L						
Ethylbenzene	ND	1.0	µg/L						
2-Hexanone (MBK)	ND	10	µg/L						
Isopropylbenzene (Cumene)	ND	1.0	µg/L						
Methyl Acetate	ND	1.0	µg/L						
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L						
Methyl Cyclohexane	ND	1.0	µg/L						
Methylene Chloride	ND	5.0	µg/L						
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L						
Styrene	ND	1.0	µg/L						
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L						
Tetrachloroethylene	ND	1.0	µg/L						
Toluene	ND	1.0	µg/L						
1,2,3-Trichlorobenzene	ND	5.0	µg/L						
1,2,4-Trichlorobenzene	ND	1.0	µg/L						
1,1,1-Trichloroethane	ND	1.0	µg/L						
1,1,2-Trichloroethane	ND	1.0	µg/L						
Trichloroethylene	ND	1.0	µg/L						
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L						
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L						
Vinyl Chloride	ND	2.0	µg/L						
m+p Xylene	ND	2.0	µg/L						

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341916 - SW-846 5030B										
Blank (B341916-BLK1)										
Prepared: 06/01/23 Analyzed: 06/02/23										
o-Xylene	ND	1.0	µg/L							
Xylenes (total)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	25.0		µg/L	25.0		99.8	70-130			
Surrogate: Toluene-d8	24.4		µg/L	25.0		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	22.8		µg/L	25.0		91.0	70-130			
LCS (B341916-BS1)										
Prepared: 06/01/23 Analyzed: 06/02/23										
Acetone	94.1	50	µg/L	100		94.1	70-160			†
Benzene	10.9	1.0	µg/L	10.0		109	70-130			
Bromochloromethane	11.1	1.0	µg/L	10.0		111	70-130			
Bromodichloromethane	10.1	0.50	µg/L	10.0		101	70-130			
Bromoform	7.36	1.0	µg/L	10.0		73.6	70-130			V-05
Bromomethane	12.2	2.0	µg/L	10.0		122	40-160			†
2-Butanone (MEK)	104	20	µg/L	100		104	40-160			†
Carbon Disulfide	98.8	5.0	µg/L	100		98.8	70-130			
Carbon Tetrachloride	9.31	5.0	µg/L	10.0		93.1	70-130			
Chlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
Chlorodibromomethane	9.12	0.50	µg/L	10.0		91.2	70-130			
Chloroethane	10.1	2.0	µg/L	10.0		101	70-130			
Chloroform	10.5	2.0	µg/L	10.0		105	70-130			
Chloromethane	11.6	2.0	µg/L	10.0		116	40-160			†
Cyclohexane	10.2	5.0	µg/L	10.0		102	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	7.83	5.0	µg/L	10.0		78.3	70-130			V-05
1,2-Dibromoethane (EDB)	10.1	0.50	µg/L	10.0		101	70-130			
1,2-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
1,3-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130			
1,4-Dichlorobenzene	9.79	1.0	µg/L	10.0		97.9	70-130			
Dichlorodifluoromethane (Freon 12)	9.94	2.0	µg/L	10.0		99.4	40-160			†
1,1-Dichloroethane	10.4	1.0	µg/L	10.0		104	70-130			
1,2-Dichloroethane	10.0	1.0	µg/L	10.0		100	70-130			
1,1-Dichloroethylene	9.93	1.0	µg/L	10.0		99.3	70-130			
cis-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130			
trans-1,2-Dichloroethylene	10.0	1.0	µg/L	10.0		100	70-130			
1,2-Dichloropropane	10.5	1.0	µg/L	10.0		105	70-130			
cis-1,3-Dichloropropene	9.75	0.50	µg/L	10.0		97.5	70-130			
trans-1,3-Dichloropropene	9.23	0.50	µg/L	10.0		92.3	70-130			
1,4-Dioxane	82.8	50	µg/L	100		82.8	40-130			†
Ethylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
2-Hexanone (MBK)	92.0	10	µg/L	100		92.0	70-160			†
Isopropylbenzene (Cumene)	9.92	1.0	µg/L	10.0		99.2	70-130			
Methyl Acetate	8.36	1.0	µg/L	10.0		83.6	70-130			
Methyl tert-Butyl Ether (MTBE)	9.44	1.0	µg/L	10.0		94.4	70-130			
Methyl Cyclohexane	10.9	1.0	µg/L	10.0		109	70-130			
Methylene Chloride	10.3	5.0	µg/L	10.0		103	70-130			
4-Methyl-2-pentanone (MIBK)	89.2	10	µg/L	100		89.2	70-160			†
Styrene	10.4	1.0	µg/L	10.0		104	70-130			
1,1,2,2-Tetrachloroethane	9.20	0.50	µg/L	10.0		92.0	70-130			
Tetrachloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
Toluene	10.5	1.0	µg/L	10.0		105	70-130			
1,2,3-Trichlorobenzene	9.58	5.0	µg/L	10.0		95.8	70-130			
1,2,4-Trichlorobenzene	9.54	1.0	µg/L	10.0		95.4	70-130			
1,1,1-Trichloroethane	9.70	1.0	µg/L	10.0		97.0	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B341916 - SW-846 5030B
LCS (B341916-BS1)

Prepared: 06/01/23 Analyzed: 06/02/23

1,1,2-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130			
Trichloroethylene	10.4	1.0	µg/L	10.0		104	70-130			
Trichlorofluoromethane (Freon 11)	9.66	2.0	µg/L	10.0		96.6	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.1	1.0	µg/L	10.0		101	70-130			
Vinyl Chloride	10.9	2.0	µg/L	10.0		109	40-160			†
m+p Xylene	20.7	2.0	µg/L	20.0		104	70-130			
o-Xylene	10.0	1.0	µg/L	10.0		100	70-130			
Xylenes (total)	30.8	1.0	µg/L	30.0		103	0-200			
Surrogate: 1,2-Dichloroethane-d4	24.1		µg/L	25.0		96.4	70-130			
Surrogate: Toluene-d8	25.8		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	24.1		µg/L	25.0		96.4	70-130			

LCS Dup (B341916-BSD1)

Prepared: 06/01/23 Analyzed: 06/02/23

Acetone	99.1	50	µg/L	100		99.1	70-160	5.21	25	†
Benzene	11.0	1.0	µg/L	10.0		110	70-130	0.823	25	
Bromochloromethane	11.5	1.0	µg/L	10.0		115	70-130	3.72	25	
Bromodichloromethane	10.0	0.50	µg/L	10.0		100	70-130	0.793	25	
Bromoform	7.61	1.0	µg/L	10.0		76.1	70-130	3.34	25	V-05
Bromomethane	12.1	2.0	µg/L	10.0		121	40-160	0.493	25	†
2-Butanone (MEK)	108	20	µg/L	100		108	40-160	3.68	25	†
Carbon Disulfide	100	5.0	µg/L	100		100	70-130	1.68	25	
Carbon Tetrachloride	9.60	5.0	µg/L	10.0		96.0	70-130	3.07	25	
Chlorobenzene	10.8	1.0	µg/L	10.0		108	70-130	1.87	25	
Chlorodibromomethane	9.29	0.50	µg/L	10.0		92.9	70-130	1.85	25	
Chloroethane	10.2	2.0	µg/L	10.0		102	70-130	0.592	25	
Chloroform	10.5	2.0	µg/L	10.0		105	70-130	0.286	25	
Chloromethane	11.1	2.0	µg/L	10.0		111	40-160	4.59	25	†
Cyclohexane	10.3	5.0	µg/L	10.0		103	70-130	0.875	25	
1,2-Dibromo-3-chloropropane (DBCP)	8.08	5.0	µg/L	10.0		80.8	70-130	3.14	25	V-05
1,2-Dibromoethane (EDB)	10.3	0.50	µg/L	10.0		103	70-130	1.86	25	
1,2-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	3.08	25	
1,3-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130	0.286	25	
1,4-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130	2.92	25	
Dichlorodifluoromethane (Freon 12)	10.6	2.0	µg/L	10.0		106	40-160	6.33	25	†
1,1-Dichloroethane	10.6	1.0	µg/L	10.0		106	70-130	2.28	25	
1,2-Dichloroethane	10.1	1.0	µg/L	10.0		101	70-130	0.993	25	
1,1-Dichloroethylene	9.78	1.0	µg/L	10.0		97.8	70-130	1.52	25	
cis-1,2-Dichloroethylene	10.3	1.0	µg/L	10.0		103	70-130	0.678	25	
trans-1,2-Dichloroethylene	9.89	1.0	µg/L	10.0		98.9	70-130	1.51	25	
1,2-Dichloropropane	10.2	1.0	µg/L	10.0		102	70-130	2.89	25	
cis-1,3-Dichloropropene	9.69	0.50	µg/L	10.0		96.9	70-130	0.617	25	
trans-1,3-Dichloropropene	9.04	0.50	µg/L	10.0		90.4	70-130	2.08	25	
1,4-Dioxane	84.7	50	µg/L	100		84.7	40-130	2.22	50	† ‡
Ethylbenzene	10.6	1.0	µg/L	10.0		106	70-130	1.52	25	
2-Hexanone (MBK)	94.3	10	µg/L	100		94.3	70-160	2.47	25	†
Isopropylbenzene (Cumene)	10.0	1.0	µg/L	10.0		100	70-130	1.30	25	
Methyl Acetate	8.62	1.0	µg/L	10.0		86.2	70-130	3.06	25	
Methyl tert-Butyl Ether (MTBE)	9.47	1.0	µg/L	10.0		94.7	70-130	0.317	25	
Methyl Cyclohexane	10.6	1.0	µg/L	10.0		106	70-130	2.60	25	
Methylene Chloride	10.2	5.0	µg/L	10.0		102	70-130	0.780	25	
4-Methyl-2-pentanone (MIBK)	92.3	10	µg/L	100		92.3	70-160	3.45	25	†
Styrene	10.7	1.0	µg/L	10.0		107	70-130	2.84	25	

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B341916 - SW-846 5030B
LCS Dup (B341916-BSD1)

Prepared: 06/01/23 Analyzed: 06/02/23

1,1,2,2-Tetrachloroethane	9.44	0.50	µg/L	10.0		94.4	70-130	2.58	25	
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106	70-130	4.41	25	
Toluene	10.7	1.0	µg/L	10.0		107	70-130	1.32	25	
1,2,3-Trichlorobenzene	10.2	5.0	µg/L	10.0		102	70-130	6.27	25	
1,2,4-Trichlorobenzene	9.80	1.0	µg/L	10.0		98.0	70-130	2.69	25	
1,1,1-Trichloroethane	9.91	1.0	µg/L	10.0		99.1	70-130	2.14	25	
1,1,2-Trichloroethane	10.7	1.0	µg/L	10.0		107	70-130	2.95	25	
Trichloroethylene	10.8	1.0	µg/L	10.0		108	70-130	3.50	25	
Trichlorofluoromethane (Freon 11)	9.91	2.0	µg/L	10.0		99.1	70-130	2.55	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.3	1.0	µg/L	10.0		103	70-130	2.06	25	
Vinyl Chloride	11.2	2.0	µg/L	10.0		112	40-160	2.35	25	†
m+p Xylene	21.1	2.0	µg/L	20.0		106	70-130	1.96	25	
o-Xylene	10.1	1.0	µg/L	10.0		101	70-130	0.199	25	
Xylenes (total)	31.2	1.0	µg/L	30.0		104	0-200	1.39		
Surrogate: 1,2-Dichloroethane-d4	24.2		µg/L	25.0		96.6	70-130			
Surrogate: Toluene-d8	25.5		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	23.7		µg/L	25.0		94.8	70-130			

Matrix Spike (B341916-MS1)
Source: 23E3538-04

Prepared: 06/01/23 Analyzed: 06/03/23

Acetone	82.4	50	µg/L	100	ND	82.4	70-130			
Benzene	9.57	1.0	µg/L	10.0	ND	95.7	70-130			
Bromochloromethane	9.96	1.0	µg/L	10.0	ND	99.6	70-130			
Bromodichloromethane	8.39	0.50	µg/L	10.0	ND	83.9	70-130			
Bromoform	6.29	1.0	µg/L	10.0	ND	62.9	* 70-130			MS-07A, V-05
Bromomethane	10.3	2.0	µg/L	10.0	ND	103	70-130			
2-Butanone (MEK)	91.6	20	µg/L	100	ND	91.6	70-130			
Carbon Disulfide	86.9	5.0	µg/L	100	ND	86.9	70-130			
Carbon Tetrachloride	8.55	5.0	µg/L	10.0	ND	85.5	70-130			
Chlorobenzene	9.07	1.0	µg/L	10.0	ND	90.7	70-130			
Chlorodibromomethane	7.56	0.50	µg/L	10.0	ND	75.6	70-130			
Chloroethane	9.27	2.0	µg/L	10.0	ND	92.7	70-130			
Chloroform	8.92	2.0	µg/L	10.0	ND	89.2	70-130			
Chloromethane	10.5	2.0	µg/L	10.0	ND	105	70-130			
Cyclohexane	9.31	5.0	µg/L	10.0	ND	93.1	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	6.32	5.0	µg/L	10.0	ND	63.2	* 70-130			V-05, MS-07A
1,2-Dibromoethane (EDB)	8.46	0.50	µg/L	10.0	ND	84.6	70-130			
1,2-Dichlorobenzene	8.66	1.0	µg/L	10.0	ND	86.6	70-130			
1,3-Dichlorobenzene	8.57	1.0	µg/L	10.0	ND	85.7	70-130			
1,4-Dichlorobenzene	8.43	1.0	µg/L	10.0	ND	84.3	70-130			
Dichlorodifluoromethane (Freon 12)	10.4	2.0	µg/L	10.0	ND	104	70-130			
1,1-Dichloroethane	9.18	1.0	µg/L	10.0	ND	91.8	70-130			
1,2-Dichloroethane	8.70	1.0	µg/L	10.0	ND	87.0	70-130			
1,1-Dichloroethylene	8.85	1.0	µg/L	10.0	ND	88.5	70-130			
cis-1,2-Dichloroethylene	8.64	1.0	µg/L	10.0	ND	86.4	70-130			
trans-1,2-Dichloroethylene	8.66	1.0	µg/L	10.0	ND	86.6	70-130			
1,2-Dichloropropane	9.07	1.0	µg/L	10.0	ND	90.7	70-130			
cis-1,3-Dichloropropene	7.41	0.50	µg/L	10.0	ND	74.1	70-130			
trans-1,3-Dichloropropene	7.02	0.50	µg/L	10.0	ND	70.2	70-130			
1,4-Dioxane	72.6	50	µg/L	100	ND	72.6	70-130			
Ethylbenzene	8.89	1.0	µg/L	10.0	ND	88.9	70-130			
2-Hexanone (MBK)	80.8	10	µg/L	100	ND	80.8	70-130			
Isopropylbenzene (Cumene)	8.37	1.0	µg/L	10.0	ND	83.7	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B341916 - SW-846 5030B

Matrix Spike (B341916-MS1)		Source: 23E3538-04		Prepared: 06/01/23 Analyzed: 06/03/23						
Methyl Acetate	4.90	1.0	µg/L	10.0	ND	49.0 *	70-130			MS-07A
Methyl tert-Butyl Ether (MTBE)	7.88	1.0	µg/L	10.0	ND	78.8	70-130			
Methyl Cyclohexane	9.28	1.0	µg/L	10.0	ND	92.8	70-130			
Methylene Chloride	8.82	5.0	µg/L	10.0	ND	88.2	70-130			
4-Methyl-2-pentanone (MIBK)	77.5	10	µg/L	100	ND	77.5	70-130			
Styrene	8.73	1.0	µg/L	10.0	ND	87.3	70-130			
1,1,2,2-Tetrachloroethane	8.30	0.50	µg/L	10.0	ND	83.0	70-130			
Tetrachloroethylene	8.95	1.0	µg/L	10.0	ND	89.5	70-130			
Toluene	9.20	1.0	µg/L	10.0	ND	92.0	70-130			
1,2,3-Trichlorobenzene	7.75	5.0	µg/L	10.0	ND	77.5	70-130			
1,2,4-Trichlorobenzene	7.63	1.0	µg/L	10.0	ND	76.3	70-130			
1,1,1-Trichloroethane	8.79	1.0	µg/L	10.0	ND	87.9	70-130			
1,1,2-Trichloroethane	8.93	1.0	µg/L	10.0	ND	89.3	70-130			
Trichloroethylene	8.98	1.0	µg/L	10.0	ND	89.8	70-130			
Trichlorofluoromethane (Freon 11)	9.05	2.0	µg/L	10.0	ND	90.5	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.21	1.0	µg/L	10.0	ND	92.1	70-130			
Vinyl Chloride	10.4	2.0	µg/L	10.0	ND	104	70-130			
m+p Xylene	17.9	2.0	µg/L	20.0	ND	89.6	70-130			
o-Xylene	8.54	1.0	µg/L	10.0	ND	85.4	70-130			
Xylenes (total)	26.5	1.0	µg/L	30.0	ND	88.2	0-200			
Surrogate: 1,2-Dichloroethane-d4	24.5		µg/L	25.0		98.1	70-130			
Surrogate: Toluene-d8	25.6		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	23.9		µg/L	25.0		95.6	70-130			

Matrix Spike Dup (B341916-MSD1)		Source: 23E3538-04		Prepared: 06/01/23 Analyzed: 06/03/23						
Acetone	75.6	50	µg/L	100	ND	75.6	70-130	8.60	30	
Benzene	9.45	1.0	µg/L	10.0	ND	94.5	70-130	1.26	30	
Bromochloromethane	9.55	1.0	µg/L	10.0	ND	95.5	70-130	4.20	30	
Bromodichloromethane	8.25	0.50	µg/L	10.0	ND	82.5	70-130	1.68	30	
Bromoform	6.12	1.0	µg/L	10.0	ND	61.2 *	70-130	2.74	30	MS-07A, V-05
Bromomethane	10.6	2.0	µg/L	10.0	ND	106	70-130	2.77	30	
2-Butanone (MEK)	85.1	20	µg/L	100	ND	85.1	70-130	7.39	30	
Carbon Disulfide	86.8	5.0	µg/L	100	ND	86.8	70-130	0.0345	30	
Carbon Tetrachloride	8.35	5.0	µg/L	10.0	ND	83.5	70-130	2.37	30	
Chlorobenzene	9.12	1.0	µg/L	10.0	ND	91.2	70-130	0.550	30	
Chlorodibromomethane	7.30	0.50	µg/L	10.0	ND	73.0	70-130	3.50	30	
Chloroethane	8.91	2.0	µg/L	10.0	ND	89.1	70-130	3.96	30	
Chloroform	8.99	2.0	µg/L	10.0	ND	89.9	70-130	0.782	30	
Chloromethane	10.4	2.0	µg/L	10.0	ND	104	70-130	1.53	30	
Cyclohexane	9.61	5.0	µg/L	10.0	ND	96.1	70-130	3.17	30	
1,2-Dibromo-3-chloropropane (DBCP)	6.93	5.0	µg/L	10.0	ND	69.3 *	70-130	9.21	30	MS-07A, V-05
1,2-Dibromoethane (EDB)	8.51	0.50	µg/L	10.0	ND	85.1	70-130	0.589	30	
1,2-Dichlorobenzene	8.66	1.0	µg/L	10.0	ND	86.6	70-130	0.00	30	
1,3-Dichlorobenzene	8.59	1.0	µg/L	10.0	ND	85.9	70-130	0.233	30	
1,4-Dichlorobenzene	8.41	1.0	µg/L	10.0	ND	84.1	70-130	0.238	30	
Dichlorodifluoromethane (Freon 12)	10.0	2.0	µg/L	10.0	ND	100	70-130	3.72	30	
1,1-Dichloroethane	9.04	1.0	µg/L	10.0	ND	90.4	70-130	1.54	30	
1,2-Dichloroethane	8.49	1.0	µg/L	10.0	ND	84.9	70-130	2.44	30	
1,1-Dichloroethylene	8.72	1.0	µg/L	10.0	ND	87.2	70-130	1.48	30	
cis-1,2-Dichloroethylene	8.38	1.0	µg/L	10.0	ND	83.8	70-130	3.06	30	
trans-1,2-Dichloroethylene	8.51	1.0	µg/L	10.0	ND	85.1	70-130	1.75	30	
1,2-Dichloropropane	8.87	1.0	µg/L	10.0	ND	88.7	70-130	2.23	30	

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B341916 - SW-846 5030B

Matrix Spike Dup (B341916-MSD1)		Source: 23E3538-04		Prepared: 06/01/23 Analyzed: 06/03/23						
cis-1,3-Dichloropropene	7.17	0.50	µg/L	10.0	ND	71.7	70-130	3.29	30	
trans-1,3-Dichloropropene	6.92	0.50	µg/L	10.0	ND	69.2 *	70-130	1.43	30	MS-24
1,4-Dioxane	71.6	50	µg/L	100	ND	71.6	70-130	1.26	30	
Ethylbenzene	8.89	1.0	µg/L	10.0	ND	88.9	70-130	0.00	30	
2-Hexanone (MBK)	73.7	10	µg/L	100	ND	73.7	70-130	9.18	30	
Isopropylbenzene (Cumene)	8.47	1.0	µg/L	10.0	ND	84.7	70-130	1.19	30	
Methyl Acetate	4.89	1.0	µg/L	10.0	ND	48.9 *	70-130	0.204	30	MS-07A
Methyl tert-Butyl Ether (MTBE)	7.52	1.0	µg/L	10.0	ND	75.2	70-130	4.68	30	
Methyl Cyclohexane	9.12	1.0	µg/L	10.0	ND	91.2	70-130	1.74	30	
Methylene Chloride	8.64	5.0	µg/L	10.0	ND	86.4	70-130	2.06	30	
4-Methyl-2-pentanone (MIBK)	73.8	10	µg/L	100	ND	73.8	70-130	4.90	30	
Styrene	8.48	1.0	µg/L	10.0	ND	84.8	70-130	2.91	30	
1,1,2,2-Tetrachloroethane	8.12	0.50	µg/L	10.0	ND	81.2	70-130	2.19	30	
Tetrachloroethylene	8.83	1.0	µg/L	10.0	ND	88.3	70-130	1.35	30	
Toluene	8.94	1.0	µg/L	10.0	ND	89.4	70-130	2.87	30	
1,2,3-Trichlorobenzene	8.10	5.0	µg/L	10.0	ND	81.0	70-130	4.42	30	
1,2,4-Trichlorobenzene	7.87	1.0	µg/L	10.0	ND	78.7	70-130	3.10	30	
1,1,1-Trichloroethane	8.55	1.0	µg/L	10.0	ND	85.5	70-130	2.77	30	
1,1,2-Trichloroethane	8.67	1.0	µg/L	10.0	ND	86.7	70-130	2.95	30	
Trichloroethylene	8.79	1.0	µg/L	10.0	ND	87.9	70-130	2.14	30	
Trichlorofluoromethane (Freon 11)	8.76	2.0	µg/L	10.0	ND	87.6	70-130	3.26	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.74	1.0	µg/L	10.0	ND	87.4	70-130	5.24	30	
Vinyl Chloride	10.1	2.0	µg/L	10.0	ND	101	70-130	2.92	30	
m+p Xylene	17.6	2.0	µg/L	20.0	ND	88.1	70-130	1.69	20	
o-Xylene	8.47	1.0	µg/L	10.0	ND	84.7	70-130	0.823	30	
Xylenes (total)	26.1	1.0	µg/L	30.0	ND	87.0	0-200	1.41		
Surrogate: 1,2-Dichloroethane-d4	25.1		µg/L	25.0		100	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	23.7		µg/L	25.0		94.8	70-130			

Batch B341940 - SW-846 5035

Blank (B341940-BLK1)		Prepared & Analyzed: 06/01/23								
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.10	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.010	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B341940 - SW-846 5035
Blank (B341940-BLK1)

Prepared & Analyzed: 06/01/23

Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							L-04, V-05
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.020	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methyl Cyclohexane	ND	0.0020	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341940 - SW-846 5035										
Blank (B341940-BLK1)				Prepared & Analyzed: 06/01/23						
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0458		mg/Kg wet	0.0500		91.5	70-130			
Surrogate: Toluene-d8	0.0484		mg/Kg wet	0.0500		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0500		mg/Kg wet	0.0500		100	70-130			
LCS (B341940-BS1)				Prepared & Analyzed: 06/01/23						
Acetone	0.189	0.10	mg/Kg wet	0.200		94.6	70-160			†
Acrylonitrile	0.0205	0.0060	mg/Kg wet	0.0200		102	70-130			
tert-Amyl Methyl Ether (TAME)	0.0176	0.0010	mg/Kg wet	0.0200		88.1	70-130			
Benzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
Bromobenzene	0.0246	0.0020	mg/Kg wet	0.0200		123	70-130			V-20
Bromochloromethane	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
Bromodichloromethane	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
Bromoform	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130			
Bromomethane	0.0274	0.010	mg/Kg wet	0.0200		137	* 40-130		L-02, V-20	†
2-Butanone (MEK)	0.205	0.040	mg/Kg wet	0.200		102	70-160			†
tert-Butyl Alcohol (TBA)	0.166	0.10	mg/Kg wet	0.200		82.9	40-130			†
n-Butylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
sec-Butylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
tert-Butylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0178	0.0010	mg/Kg wet	0.0200		89.2	70-130			
Carbon Disulfide	0.214	0.010	mg/Kg wet	0.200		107	70-130			V-35
Carbon Tetrachloride	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
Chlorobenzene	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
Chlorodibromomethane	0.0207	0.0010	mg/Kg wet	0.0200		104	70-130			
Chloroethane	0.0313	0.020	mg/Kg wet	0.0200		156	* 70-130		L-02, V-20	
Chloroform	0.0206	0.0040	mg/Kg wet	0.0200		103	70-130			
Chloromethane	0.0138	0.010	mg/Kg wet	0.0200		69.2	* 70-130		L-04, V-05	
2-Chlorotoluene	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130			
4-Chlorotoluene	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0172	0.0020	mg/Kg wet	0.0200		86.0	70-130			
1,2-Dibromoethane (EDB)	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
Dibromomethane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,2-Dichlorobenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
1,3-Dichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,4-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
trans-1,4-Dichloro-2-butene	0.0191	0.0040	mg/Kg wet	0.0200		95.6	70-130			
Dichlorodifluoromethane (Freon 12)	0.0171	0.020	mg/Kg wet	0.0200		85.7	40-160		J, V-35	†
1,1-Dichloroethane	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2-Dichloroethane	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130			
1,1-Dichloroethylene	0.0206	0.0040	mg/Kg wet	0.0200		103	70-130			
cis-1,2-Dichloroethylene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
trans-1,2-Dichloroethylene	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130			
1,2-Dichloropropane	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
1,3-Dichloropropane	0.0215	0.0010	mg/Kg wet	0.0200		108	70-130			
2,2-Dichloropropane	0.0181	0.0020	mg/Kg wet	0.0200		90.5	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B341940 - SW-846 5035
LCS (B341940-BS1)

Prepared & Analyzed: 06/01/23

1,1-Dichloropropene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130			
cis-1,3-Dichloropropene	0.0194	0.0010	mg/Kg wet	0.0200		97.1	70-130			
trans-1,3-Dichloropropene	0.0183	0.0010	mg/Kg wet	0.0200		91.6	70-130			
Diethyl Ether	0.0204	0.020	mg/Kg wet	0.0200		102	70-130			
Diisopropyl Ether (DIPE)	0.0183	0.0010	mg/Kg wet	0.0200		91.6	70-130			
1,4-Dioxane	0.209	0.10	mg/Kg wet	0.200		105	40-160			†
Ethylbenzene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			
Hexachlorobutadiene	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-160			
2-Hexanone (MBK)	0.198	0.020	mg/Kg wet	0.200		99.0	70-160			†
Isopropylbenzene (Cumene)	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130			
p-Isopropyltoluene (p-Cymene)	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
Methyl Acetate	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0181	0.0040	mg/Kg wet	0.0200		90.7	70-130			
Methyl Cyclohexane	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130			
Methylene Chloride	0.0189	0.020	mg/Kg wet	0.0200		94.3	40-160		J	†
4-Methyl-2-pentanone (MIBK)	0.198	0.020	mg/Kg wet	0.200		99.1	70-160			†
Naphthalene	0.0201	0.0040	mg/Kg wet	0.0200		101	40-130			†
n-Propylbenzene	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130			
Styrene	0.0231	0.0020	mg/Kg wet	0.0200		115	70-130			
1,1,1,2-Tetrachloroethane	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130			
1,1,2,2-Tetrachloroethane	0.0236	0.0010	mg/Kg wet	0.0200		118	70-130			
Tetrachloroethylene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
Tetrahydrofuran	0.0195	0.010	mg/Kg wet	0.0200		97.3	70-130			
Toluene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2,3-Trichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
1,2,4-Trichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
1,3,5-Trichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130			
1,1,1-Trichloroethane	0.0199	0.0020	mg/Kg wet	0.0200		99.6	70-130			
1,1,2-Trichloroethane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
Trichloroethylene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
Trichlorofluoromethane (Freon 11)	0.0231	0.010	mg/Kg wet	0.0200		116	70-130			
1,2,3-Trichloropropane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0211	0.010	mg/Kg wet	0.0200		105	70-130			
1,2,4-Trimethylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130			
1,3,5-Trimethylbenzene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130			
Vinyl Chloride	0.0195	0.010	mg/Kg wet	0.0200		97.5	40-130			†
m+p Xylene	0.0467	0.0040	mg/Kg wet	0.0400		117	70-130			
o-Xylene	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0452		mg/Kg wet	0.0500		90.4	70-130			
Surrogate: Toluene-d8	0.0495		mg/Kg wet	0.0500		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.0504		mg/Kg wet	0.0500		101	70-130			

LCS Dup (B341940-BSD1)

Prepared & Analyzed: 06/01/23

Acetone	0.178	0.10	mg/Kg wet	0.200		89.0	70-160	6.12	25	†
Acrylonitrile	0.0200	0.0060	mg/Kg wet	0.0200		100	70-130	2.47	25	
tert-Amyl Methyl Ether (TAME)	0.0170	0.0010	mg/Kg wet	0.0200		84.9	70-130	3.70	25	
Benzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	2.12	25	
Bromobenzene	0.0237	0.0020	mg/Kg wet	0.0200		119	70-130	3.48	25	V-20
Bromochloromethane	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130	2.21	25	
Bromodichloromethane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	1.07	25	
Bromoform	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	4.92	25	
Bromomethane	0.0278	0.010	mg/Kg wet	0.0200		139	* 40-130	1.31	25	L-02, V-20 †

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341940 - SW-846 5035										
LCS Dup (B341940-BSD1)				Prepared & Analyzed: 06/01/23						
2-Butanone (MEK)	0.195	0.040	mg/Kg wet	0.200		97.5	70-160	4.88	25	†
tert-Butyl Alcohol (TBA)	0.153	0.10	mg/Kg wet	0.200		76.3	40-130	8.33	25	†
n-Butylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	0.994	25	
sec-Butylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130	1.30	25	
tert-Butylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-160	1.31	25	†
tert-Butyl Ethyl Ether (TBEE)	0.0174	0.0010	mg/Kg wet	0.0200		87.2	70-130	2.27	25	
Carbon Disulfide	0.209	0.010	mg/Kg wet	0.200		104	70-130	2.36	25	V-35
Carbon Tetrachloride	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-130	4.52	25	
Chlorobenzene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130	1.59	25	
Chlorodibromomethane	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130	1.65	25	
Chloroethane	0.0306	0.020	mg/Kg wet	0.0200		153	* 70-130	2.00	25	L-02, V-20
Chloroform	0.0204	0.0040	mg/Kg wet	0.0200		102	70-130	0.977	25	
Chloromethane	0.0136	0.010	mg/Kg wet	0.0200		67.8	* 70-130	2.04	25	L-04, V-05
2-Chlorotoluene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	2.42	25	
4-Chlorotoluene	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130	3.17	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0166	0.0020	mg/Kg wet	0.0200		82.8	70-130	3.79	25	
1,2-Dibromoethane (EDB)	0.0209	0.0010	mg/Kg wet	0.0200		105	70-130	0.191	25	
Dibromomethane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	0.0954	25	
1,2-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	1.97	25	
1,3-Dichlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	0.778	25	
1,4-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	0.197	25	
trans-1,4-Dichloro-2-butene	0.0186	0.0040	mg/Kg wet	0.0200		93.2	70-130	2.54	25	
Dichlorodifluoromethane (Freon 12)	0.0167	0.020	mg/Kg wet	0.0200		83.4	40-160	2.72	25	J, V-35 †
1,1-Dichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	1.19	25	
1,2-Dichloroethane	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130	0.502	25	
1,1-Dichloroethylene	0.0202	0.0040	mg/Kg wet	0.0200		101	70-130	2.06	25	
cis-1,2-Dichloroethylene	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130	2.31	25	
trans-1,2-Dichloroethylene	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130	2.04	25	
1,2-Dichloropropane	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130	0.612	25	
1,3-Dichloropropane	0.0211	0.0010	mg/Kg wet	0.0200		106	70-130	1.87	25	
2,2-Dichloropropane	0.0175	0.0020	mg/Kg wet	0.0200		87.7	70-130	3.14	25	
1,1-Dichloropropene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	3.21	25	
cis-1,3-Dichloropropene	0.0190	0.0010	mg/Kg wet	0.0200		95.1	70-130	2.08	25	
trans-1,3-Dichloropropene	0.0183	0.0010	mg/Kg wet	0.0200		91.7	70-130	0.109	25	
Diethyl Ether	0.0203	0.020	mg/Kg wet	0.0200		102	70-130	0.393	25	
Diisopropyl Ether (DIPE)	0.0179	0.0010	mg/Kg wet	0.0200		89.7	70-130	2.10	25	
1,4-Dioxane	0.197	0.10	mg/Kg wet	0.200		98.7	40-160	5.82	50	† ‡
Ethylbenzene	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130	1.77	25	
Hexachlorobutadiene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-160	0.707	25	
2-Hexanone (MBK)	0.189	0.020	mg/Kg wet	0.200		94.4	70-160	4.78	25	†
Isopropylbenzene (Cumene)	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	1.64	25	
p-Isopropyltoluene (p-Cymene)	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130	0.501	25	
Methyl Acetate	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130	4.64	25	
Methyl tert-Butyl Ether (MTBE)	0.0174	0.0040	mg/Kg wet	0.0200		86.8	70-130	4.39	25	
Methyl Cyclohexane	0.0190	0.0020	mg/Kg wet	0.0200		95.1	70-130	1.70	25	
Methylene Chloride	0.0184	0.020	mg/Kg wet	0.0200		92.1	40-160	2.36	25	J †
4-Methyl-2-pentanone (MIBK)	0.193	0.020	mg/Kg wet	0.200		96.4	70-160	2.81	25	†
Naphthalene	0.0197	0.0040	mg/Kg wet	0.0200		98.6	40-130	2.01	25	†
n-Propylbenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	3.54	25	
Styrene	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130	1.13	25	
1,1,1,2-Tetrachloroethane	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	0.0913	25	
1,1,2,2-Tetrachloroethane	0.0228	0.0010	mg/Kg wet	0.0200		114	70-130	3.62	25	

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B341940 - SW-846 5035
LCS Dup (B341940-BSD1)

Prepared & Analyzed: 06/01/23

Tetrachloroethylene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	1.40	25	
Tetrahydrofuran	0.0181	0.010	mg/Kg wet	0.0200		90.3	70-130	7.46	25	
Toluene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	10.1	25	
1,2,3-Trichlorobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	2.25	25	
1,2,4-Trichlorobenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130	2.59	25	
1,3,5-Trichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130	0.202	25	
1,1,1-Trichloroethane	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130	0.302	25	
1,1,2-Trichloroethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	2.59	25	
Trichloroethylene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	0.193	25	
Trichlorofluoromethane (Freon 11)	0.0227	0.010	mg/Kg wet	0.0200		113	70-130	2.01	25	
1,2,3-Trichloropropane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	2.80	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0203	0.010	mg/Kg wet	0.0200		101	70-130	3.77	25	
1,2,4-Trimethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.6	70-130	0.301	25	
1,3,5-Trimethylbenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	1.98	25	
Vinyl Chloride	0.0188	0.010	mg/Kg wet	0.0200		94.0	40-130	3.66	25	†
m+p Xylene	0.0454	0.0040	mg/Kg wet	0.0400		114	70-130	2.65	25	
o-Xylene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	1.84	25	
Surrogate: 1,2-Dichloroethane-d4	0.0447		mg/Kg wet	0.0500		89.4	70-130			
Surrogate: Toluene-d8	0.0498		mg/Kg wet	0.0500		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0502		mg/Kg wet	0.0500		100	70-130			

Batch B342085 - SW-846 5035
Blank (B342085-BLK1)

Prepared & Analyzed: 06/02/23

Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.10	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.010	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							

L-04, V-05

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342085 - SW-846 5035										
Blank (B342085-BLK1)				Prepared & Analyzed: 06/02/23						
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.020	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methyl Cyclohexane	ND	0.0020	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0471		mg/Kg wet	0.0500		94.3	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342085 - SW-846 5035										
Blank (B342085-BLK1)										
Prepared & Analyzed: 06/02/23										
Surrogate: Toluene-d8	0.0493		mg/Kg wet	0.0500		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0503		mg/Kg wet	0.0500		101	70-130			
LCS (B342085-BS1)										
Prepared & Analyzed: 06/02/23										
Acetone	0.169	0.10	mg/Kg wet	0.200		84.6	70-160			†
Acrylonitrile	0.0184	0.0060	mg/Kg wet	0.0200		92.1	70-130			
tert-Amyl Methyl Ether (TAME)	0.0175	0.0010	mg/Kg wet	0.0200		87.3	70-130			
Benzene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130			
Bromobenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			V-20
Bromochloromethane	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130			
Bromodichloromethane	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
Bromoform	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
Bromomethane	0.0265	0.010	mg/Kg wet	0.0200		132	* 40-130		L-02, V-20	†
2-Butanone (MEK)	0.185	0.040	mg/Kg wet	0.200		92.3	70-160			†
tert-Butyl Alcohol (TBA)	0.146	0.10	mg/Kg wet	0.200		73.2	40-130			†
n-Butylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130			
sec-Butylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-130			
tert-Butylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0174	0.0010	mg/Kg wet	0.0200		87.1	70-130			
Carbon Disulfide	0.198	0.010	mg/Kg wet	0.200		99.1	70-130			V-35
Carbon Tetrachloride	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130			
Chlorobenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
Chlorodibromomethane	0.0203	0.0010	mg/Kg wet	0.0200		102	70-130			
Chloroethane	0.0296	0.020	mg/Kg wet	0.0200		148	* 70-130		L-02, V-20	
Chloroform	0.0196	0.0040	mg/Kg wet	0.0200		98.2	70-130			
Chloromethane	0.0125	0.010	mg/Kg wet	0.0200		62.6	* 70-130		L-04, V-05	
2-Chlorotoluene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
4-Chlorotoluene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0156	0.0020	mg/Kg wet	0.0200		78.2	70-130			
1,2-Dibromoethane (EDB)	0.0211	0.0010	mg/Kg wet	0.0200		106	70-130			
Dibromomethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,2-Dichlorobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,3-Dichlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130			
1,4-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130			
trans-1,4-Dichloro-2-butene	0.0177	0.0040	mg/Kg wet	0.0200		88.7	70-130			
Dichlorodifluoromethane (Freon 12)	0.0152	0.020	mg/Kg wet	0.0200		76.2	40-160		J, V-35	†
1,1-Dichloroethane	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130			
1,2-Dichloroethane	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130			
1,1-Dichloroethylene	0.0191	0.0040	mg/Kg wet	0.0200		95.5	70-130			
cis-1,2-Dichloroethylene	0.0190	0.0020	mg/Kg wet	0.0200		94.9	70-130			
trans-1,2-Dichloroethylene	0.0184	0.0020	mg/Kg wet	0.0200		92.1	70-130			
1,2-Dichloropropane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,3-Dichloropropane	0.0212	0.0010	mg/Kg wet	0.0200		106	70-130			
2,2-Dichloropropane	0.0170	0.0020	mg/Kg wet	0.0200		84.9	70-130			
1,1-Dichloropropene	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			
cis-1,3-Dichloropropene	0.0189	0.0010	mg/Kg wet	0.0200		94.4	70-130			
trans-1,3-Dichloropropene	0.0182	0.0010	mg/Kg wet	0.0200		90.9	70-130			
Diethyl Ether	0.0200	0.020	mg/Kg wet	0.0200		100	70-130			
Diisopropyl Ether (DIPE)	0.0182	0.0010	mg/Kg wet	0.0200		90.9	70-130			
1,4-Dioxane	0.197	0.10	mg/Kg wet	0.200		98.4	40-160			†
Ethylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130			
Hexachlorobutadiene	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-160			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342085 - SW-846 5035
LCS (B342085-BS1)

Prepared & Analyzed: 06/02/23

2-Hexanone (MBK)	0.185	0.020	mg/Kg wet	0.200		92.6	70-160			†
Isopropylbenzene (Cumene)	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
p-Isopropyltoluene (p-Cymene)	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130			
Methyl Acetate	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0175	0.0040	mg/Kg wet	0.0200		87.3	70-130			
Methyl Cyclohexane	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
Methylene Chloride	0.0175	0.020	mg/Kg wet	0.0200		87.6	40-160			J †
4-Methyl-2-pentanone (MIBK)	0.188	0.020	mg/Kg wet	0.200		94.2	70-160			†
Naphthalene	0.0201	0.0040	mg/Kg wet	0.0200		100	40-130			†
n-Propylbenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
Styrene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
1,1,1,2-Tetrachloroethane	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
1,1,2,2-Tetrachloroethane	0.0229	0.0010	mg/Kg wet	0.0200		115	70-130			V-20
Tetrachloroethylene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
Tetrahydrofuran	0.0165	0.010	mg/Kg wet	0.0200		82.5	70-130			
Toluene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
1,2,3-Trichlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
1,2,4-Trichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130			
1,3,5-Trichlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130			
1,1,1-Trichloroethane	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130			
1,1,2-Trichloroethane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
Trichloroethylene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Trichlorofluoromethane (Freon 11)	0.0215	0.010	mg/Kg wet	0.0200		107	70-130			
1,2,3-Trichloropropane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0197	0.010	mg/Kg wet	0.0200		98.7	70-130			
1,2,4-Trimethylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130			
1,3,5-Trimethylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130			
Vinyl Chloride	0.0177	0.010	mg/Kg wet	0.0200		88.4	40-130			†
m+p Xylene	0.0450	0.0040	mg/Kg wet	0.0400		112	70-130			
o-Xylene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0442		mg/Kg wet	0.0500		88.3	70-130			
Surrogate: Toluene-d8	0.0490		mg/Kg wet	0.0500		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.0504		mg/Kg wet	0.0500		101	70-130			

LCS Dup (B342085-BSD1)

Prepared & Analyzed: 06/02/23

Acetone	0.170	0.10	mg/Kg wet	0.200		84.9	70-160	0.366	25	†
Acrylonitrile	0.0184	0.0060	mg/Kg wet	0.0200		91.9	70-130	0.217	25	
tert-Amyl Methyl Ether (TAME)	0.0173	0.0010	mg/Kg wet	0.0200		86.7	70-130	0.690	25	
Benzene	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130	0.708	25	
Bromobenzene	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130	14.6	25	V-20
Bromochloromethane	0.0190	0.0020	mg/Kg wet	0.0200		95.1	70-130	0.105	25	
Bromodichloromethane	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130	3.10	25	
Bromoform	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	0.278	25	
Bromomethane	0.0273	0.010	mg/Kg wet	0.0200		136	* 40-130	2.90	25	L-02, V-20 †
2-Butanone (MEK)	0.185	0.040	mg/Kg wet	0.200		92.4	70-160	0.0758	25	†
tert-Butyl Alcohol (TBA)	0.147	0.10	mg/Kg wet	0.200		73.5	40-130	0.327	25	†
n-Butylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130	3.16	25	
sec-Butylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130	4.42	25	
tert-Butylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.1	70-160	4.16	25	†
tert-Butyl Ethyl Ether (TBEE)	0.0172	0.0010	mg/Kg wet	0.0200		86.2	70-130	1.04	25	
Carbon Disulfide	0.193	0.010	mg/Kg wet	0.200		96.5	70-130	2.65	25	V-35
Carbon Tetrachloride	0.0177	0.0020	mg/Kg wet	0.0200		88.7	70-130	4.73	25	

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342085 - SW-846 5035										
LCS Dup (B342085-BS1)				Prepared & Analyzed: 06/02/23						
Chlorobenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	2.11	25	
Chlorodibromomethane	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130	1.59	25	
Chloroethane	0.0298	0.020	mg/Kg wet	0.0200		149	* 70-130	0.809	25	L-02, V-20
Chloroform	0.0197	0.0040	mg/Kg wet	0.0200		98.4	70-130	0.203	25	
Chloromethane	0.0123	0.010	mg/Kg wet	0.0200		61.4	* 70-130	1.94	25	L-04, V-05
2-Chlorotoluene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	4.16	25	
4-Chlorotoluene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	3.33	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0151	0.0020	mg/Kg wet	0.0200		75.3	70-130	3.78	25	
1,2-Dibromoethane (EDB)	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130	4.55	25	
Dibromomethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	2.56	25	
1,2-Dichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	2.20	25	
1,3-Dichlorobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130	0.502	25	
1,4-Dichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130	1.22	25	
trans-1,4-Dichloro-2-butene	0.0177	0.0040	mg/Kg wet	0.0200		88.4	70-130	0.339	25	
Dichlorodifluoromethane (Freon 12)	0.0150	0.020	mg/Kg wet	0.0200		74.8	40-160	1.85	25	J, V-35 †
1,1-Dichloroethane	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130	2.24	25	
1,2-Dichloroethane	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130	1.44	25	
1,1-Dichloroethylene	0.0187	0.0040	mg/Kg wet	0.0200		93.7	70-130	1.90	25	
cis-1,2-Dichloroethylene	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130	2.24	25	
trans-1,2-Dichloroethylene	0.0180	0.0020	mg/Kg wet	0.0200		90.0	70-130	2.31	25	
1,2-Dichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	5.48	25	
1,3-Dichloropropane	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130	2.87	25	
2,2-Dichloropropane	0.0166	0.0020	mg/Kg wet	0.0200		83.1	70-130	2.14	25	
1,1-Dichloropropene	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130	3.42	25	
cis-1,3-Dichloropropene	0.0184	0.0010	mg/Kg wet	0.0200		91.9	70-130	2.68	25	
trans-1,3-Dichloropropene	0.0177	0.0010	mg/Kg wet	0.0200		88.5	70-130	2.68	25	
Diethyl Ether	0.0199	0.020	mg/Kg wet	0.0200		99.5	70-130	0.601	25	J
Diisopropyl Ether (DIPE)	0.0174	0.0010	mg/Kg wet	0.0200		87.0	70-130	4.38	25	
1,4-Dioxane	0.192	0.10	mg/Kg wet	0.200		96.2	40-160	2.24	50	† ‡
Ethylbenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	2.97	25	
Hexachlorobutadiene	0.0185	0.0020	mg/Kg wet	0.0200		92.6	70-160	2.87	25	
2-Hexanone (MBK)	0.181	0.020	mg/Kg wet	0.200		90.4	70-160	2.47	25	†
Isopropylbenzene (Cumene)	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	3.70	25	
p-Isopropyltoluene (p-Cymene)	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130	2.41	25	
Methyl Acetate	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	5.12	25	
Methyl tert-Butyl Ether (MTBE)	0.0175	0.0040	mg/Kg wet	0.0200		87.7	70-130	0.457	25	
Methyl Cyclohexane	0.0184	0.0020	mg/Kg wet	0.0200		92.0	70-130	5.08	25	
Methylene Chloride	0.0172	0.020	mg/Kg wet	0.0200		86.1	40-160	1.73	25	J †
4-Methyl-2-pentanone (MIBK)	0.184	0.020	mg/Kg wet	0.200		92.1	70-160	2.23	25	†
Naphthalene	0.0198	0.0040	mg/Kg wet	0.0200		98.8	40-130	1.51	25	†
n-Propylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	3.45	25	
Styrene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	2.63	25	
1,1,1,2-Tetrachloroethane	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	1.73	25	
1,1,2,2-Tetrachloroethane	0.0226	0.0010	mg/Kg wet	0.0200		113	70-130	1.58	25	V-20
Tetrachloroethylene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	4.86	25	
Tetrahydrofuran	0.0169	0.010	mg/Kg wet	0.0200		84.4	70-130	2.28	25	
Toluene	0.0194	0.0020	mg/Kg wet	0.0200		97.1	70-130	3.14	25	
1,2,3-Trichlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	0.398	25	
1,2,4-Trichlorobenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130	1.97	25	
1,3,5-Trichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130	2.08	25	
1,1,1-Trichloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130	2.70	25	
1,1,2-Trichloroethane	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	2.62	25	

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342085 - SW-846 5035										
LCS Dup (B342085-BSD1)				Prepared & Analyzed: 06/02/23						
Trichloroethylene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130	5.39	25	
Trichlorofluoromethane (Freon 11)	0.0211	0.010	mg/Kg wet	0.0200		105	70-130	1.88	25	
1,2,3-Trichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	4.27	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0193	0.010	mg/Kg wet	0.0200		96.5	70-130	2.25	25	
1,2,4-Trimethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130	3.56	25	
1,3,5-Trimethylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	2.15	25	
Vinyl Chloride	0.0173	0.010	mg/Kg wet	0.0200		86.7	40-130	1.94	25	†
m+p Xylene	0.0430	0.0040	mg/Kg wet	0.0400		107	70-130	4.50	25	
o-Xylene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	2.65	25	
Surrogate: 1,2-Dichloroethane-d4	0.0454		mg/Kg wet	0.0500		90.7	70-130			
Surrogate: Toluene-d8	0.0495		mg/Kg wet	0.0500		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.0509		mg/Kg wet	0.0500		102	70-130			
Matrix Spike (B342085-MS1)				Source: 23E3538-05		Prepared & Analyzed: 06/02/23				
Acetone	0.170	0.097	mg/Kg dry	0.193	0.00945	83.0	70-130			
Acrylonitrile	0.0186	0.0058	mg/Kg dry	0.0193	ND	96.3	70-130			
tert-Amyl Methyl Ether (TAME)	0.0175	0.00097	mg/Kg dry	0.0193	ND	90.7	70-130			
Benzene	0.0206	0.0019	mg/Kg dry	0.0193	ND	107	70-130			
Bromobenzene	0.0247	0.0019	mg/Kg dry	0.0193	ND	128	70-130			V-20
Bromochloromethane	0.0203	0.0019	mg/Kg dry	0.0193	ND	105	70-130			
Bromodichloromethane	0.0211	0.0019	mg/Kg dry	0.0193	ND	109	70-130			
Bromoform	0.0231	0.0019	mg/Kg dry	0.0193	ND	120	70-130			
Bromomethane	0.0153	0.0097	mg/Kg dry	0.0193	ND	79.4	70-130			V-20
2-Butanone (MEK)	0.188	0.039	mg/Kg dry	0.193	ND	97.1	70-130			
tert-Butyl Alcohol (TBA)	0.150	0.097	mg/Kg dry	0.193	ND	77.5	70-130			
n-Butylbenzene	0.0208	0.0019	mg/Kg dry	0.0193	ND	107	70-130			
sec-Butylbenzene	0.0224	0.0019	mg/Kg dry	0.0193	ND	116	70-130			
tert-Butylbenzene	0.0217	0.0019	mg/Kg dry	0.0193	ND	112	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0174	0.00097	mg/Kg dry	0.0193	ND	89.9	70-130			
Carbon Disulfide	0.0223	0.0097	mg/Kg dry	0.0193	ND	115	70-130			V-35
Carbon Tetrachloride	0.0195	0.0019	mg/Kg dry	0.0193	ND	101	70-130			
Chlorobenzene	0.0228	0.0019	mg/Kg dry	0.0193	ND	118	70-130			
Chlorodibromomethane	0.0219	0.00097	mg/Kg dry	0.0193	ND	114	70-130			
Chloroethane	0.0259	0.019	mg/Kg dry	0.0193	ND	134	* 70-130			MS-22, V-20
Chloroform	0.0209	0.0039	mg/Kg dry	0.0193	ND	108	70-130			
Chloromethane	0.0105	0.0097	mg/Kg dry	0.0193	ND	54.4	* 70-130			L-04, MS-07A2, V-05
2-Chlorotoluene	0.0231	0.0019	mg/Kg dry	0.0193	ND	120	70-130			
4-Chlorotoluene	0.0234	0.0019	mg/Kg dry	0.0193	ND	121	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0191	0.0019	mg/Kg dry	0.0193	ND	98.7	70-130			
1,2-Dibromoethane (EDB)	0.0224	0.00097	mg/Kg dry	0.0193	ND	116	70-130			
Dibromomethane	0.0224	0.0019	mg/Kg dry	0.0193	ND	116	70-130			
1,2-Dichlorobenzene	0.0230	0.0019	mg/Kg dry	0.0193	ND	119	70-130			
1,3-Dichlorobenzene	0.0220	0.0019	mg/Kg dry	0.0193	ND	114	70-130			
1,4-Dichlorobenzene	0.0216	0.0019	mg/Kg dry	0.0193	ND	112	70-130			
trans-1,4-Dichloro-2-butene	0.0180	0.0039	mg/Kg dry	0.0193	ND	93.3	70-130			
Dichlorodifluoromethane (Freon 12)	0.0166	0.019	mg/Kg dry	0.0193	ND	85.7	70-130			J, V-35
1,1-Dichloroethane	0.0207	0.0019	mg/Kg dry	0.0193	ND	107	70-130			
1,2-Dichloroethane	0.0205	0.0019	mg/Kg dry	0.0193	ND	106	70-130			
1,1-Dichloroethylene	0.0208	0.0039	mg/Kg dry	0.0193	ND	108	70-130			
cis-1,2-Dichloroethylene	0.0207	0.0019	mg/Kg dry	0.0193	ND	107	70-130			
trans-1,2-Dichloroethylene	0.0193	0.0019	mg/Kg dry	0.0193	ND	99.7	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342085 - SW-846 5035										
Matrix Spike (B342085-MS1)	Source: 23E3538-05			Prepared & Analyzed: 06/02/23						
1,2-Dichloropropane	0.0214	0.0019	mg/Kg dry	0.0193	ND	111	70-130			
1,3-Dichloropropane	0.0222	0.00097	mg/Kg dry	0.0193	ND	115	70-130			
2,2-Dichloropropane	0.0190	0.0019	mg/Kg dry	0.0193	ND	98.2	70-130			
1,1-Dichloropropene	0.0203	0.0019	mg/Kg dry	0.0193	ND	105	70-130			
cis-1,3-Dichloropropene	0.0198	0.00097	mg/Kg dry	0.0193	ND	103	70-130			
trans-1,3-Dichloropropene	0.0213	0.00097	mg/Kg dry	0.0193	ND	110	70-130			
Diethyl Ether	0.0222	0.019	mg/Kg dry	0.0193	ND	115	70-130			
Diisopropyl Ether (DIPE)	0.0187	0.00097	mg/Kg dry	0.0193	ND	96.7	70-130			
1,4-Dioxane	0.194	0.097	mg/Kg dry	0.193	ND	100	70-130			
Ethylbenzene	0.0231	0.0019	mg/Kg dry	0.0193	ND	120	70-130			
Hexachlorobutadiene	0.0210	0.0019	mg/Kg dry	0.0193	ND	109	70-130			
2-Hexanone (MBK)	0.193	0.019	mg/Kg dry	0.193	ND	99.7	70-130			
Isopropylbenzene (Cumene)	0.0228	0.0019	mg/Kg dry	0.0193	ND	118	70-130			
p-Isopropyltoluene (p-Cymene)	0.0220	0.0019	mg/Kg dry	0.0193	ND	114	70-130			
Methyl Acetate	0.0147	0.0019	mg/Kg dry	0.0193	ND	76.0	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0174	0.0039	mg/Kg dry	0.0193	ND	90.3	70-130			
Methyl Cyclohexane	0.0204	0.0019	mg/Kg dry	0.0193	ND	106	70-130			
Methylene Chloride	0.0181	0.019	mg/Kg dry	0.0193	ND	93.8	70-130			J
4-Methyl-2-pentanone (MIBK)	0.202	0.019	mg/Kg dry	0.193	ND	105	70-130			
Naphthalene	0.0221	0.0039	mg/Kg dry	0.0193	ND	114	70-130			
n-Propylbenzene	0.0232	0.0019	mg/Kg dry	0.0193	ND	120	70-130			
Styrene	0.0236	0.0019	mg/Kg dry	0.0193	ND	122	70-130			
1,1,1,2-Tetrachloroethane	0.0230	0.0019	mg/Kg dry	0.0193	ND	119	70-130			
1,1,2,2-Tetrachloroethane	0.0256	0.00097	mg/Kg dry	0.0193	ND	133	* 70-130			MS-24, V-20
Tetrachloroethylene	0.0224	0.0019	mg/Kg dry	0.0193	ND	116	70-130			
Tetrahydrofuran	0.0174	0.0097	mg/Kg dry	0.0193	ND	90.2	70-130			
Toluene	0.0209	0.0019	mg/Kg dry	0.0193	ND	108	70-130			
1,2,3-Trichlorobenzene	0.0215	0.0019	mg/Kg dry	0.0193	ND	112	70-130			
1,2,4-Trichlorobenzene	0.0218	0.0019	mg/Kg dry	0.0193	ND	113	70-130			
1,3,5-Trichlorobenzene	0.0214	0.0019	mg/Kg dry	0.0193	ND	110	70-130			
1,1,1-Trichloroethane	0.0206	0.0019	mg/Kg dry	0.0193	ND	106	70-130			
1,1,2-Trichloroethane	0.0232	0.0019	mg/Kg dry	0.0193	ND	120	70-130			
Trichloroethylene	0.0216	0.0019	mg/Kg dry	0.0193	ND	112	70-130			
Trichlorofluoromethane (Freon 11)	0.0235	0.0097	mg/Kg dry	0.0193	ND	122	70-130			
1,2,3-Trichloropropane	0.0222	0.0019	mg/Kg dry	0.0193	ND	115	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0212	0.0097	mg/Kg dry	0.0193	ND	110	70-130			
1,2,4-Trimethylbenzene	0.0208	0.0019	mg/Kg dry	0.0193	ND	108	70-130			
1,3,5-Trimethylbenzene	0.0226	0.0019	mg/Kg dry	0.0193	ND	117	70-130			
Vinyl Chloride	0.0169	0.0097	mg/Kg dry	0.0193	ND	87.4	70-130			
m+p Xylene	0.0457	0.0039	mg/Kg dry	0.0386	ND	118	70-130			
o-Xylene	0.0235	0.0019	mg/Kg dry	0.0193	ND	122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0448		mg/Kg dry	0.0483		92.8	70-130			
Surrogate: Toluene-d8	0.0491		mg/Kg dry	0.0483		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0486		mg/Kg dry	0.0483		101	70-130			

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342085 - SW-846 5035										
Matrix Spike Dup (B342085-MSD1)	Source: 23E3538-05			Prepared & Analyzed: 06/02/23						
Acetone	0.148	0.091	mg/Kg dry	0.182	0.00945	76.1	70-130	13.7	30	
Acrylonitrile	0.0164	0.0055	mg/Kg dry	0.0182	ND	90.0	70-130	12.6	30	
tert-Amyl Methyl Ether (TAME)	0.0158	0.00091	mg/Kg dry	0.0182	ND	86.9	70-130	10.1	30	
Benzene	0.0188	0.0018	mg/Kg dry	0.0182	ND	103	70-130	9.28	30	
Bromobenzene	0.0216	0.0018	mg/Kg dry	0.0182	ND	119	70-130	13.1	30	V-20
Bromochloromethane	0.0185	0.0018	mg/Kg dry	0.0182	ND	102	70-130	9.52	30	
Bromodichloromethane	0.0187	0.0018	mg/Kg dry	0.0182	ND	103	70-130	12.0	30	
Bromoform	0.0201	0.0018	mg/Kg dry	0.0182	ND	110	70-130	14.1	30	
Bromomethane	0.0155	0.0091	mg/Kg dry	0.0182	ND	85.0	70-130	0.962	30	V-20
2-Butanone (MEK)	0.156	0.036	mg/Kg dry	0.182	ND	85.7	70-130	18.4	30	
tert-Butyl Alcohol (TBA)	0.126	0.091	mg/Kg dry	0.182	ND	69.0	* 70-130	17.4	30	MS-24
n-Butylbenzene	0.0180	0.0018	mg/Kg dry	0.0182	ND	98.7	70-130	14.3	30	
sec-Butylbenzene	0.0192	0.0018	mg/Kg dry	0.0182	ND	105	70-130	15.5	30	
tert-Butylbenzene	0.0187	0.0018	mg/Kg dry	0.0182	ND	102	70-130	15.0	30	
tert-Butyl Ethyl Ether (TBEE)	0.0159	0.00091	mg/Kg dry	0.0182	ND	87.3	70-130	8.78	30	
Carbon Disulfide	0.0207	0.0091	mg/Kg dry	0.0182	ND	114	70-130	7.07	30	V-35
Carbon Tetrachloride	0.0180	0.0018	mg/Kg dry	0.0182	ND	98.7	70-130	8.25	30	
Chlorobenzene	0.0207	0.0018	mg/Kg dry	0.0182	ND	114	70-130	9.73	30	
Chlorodibromomethane	0.0188	0.00091	mg/Kg dry	0.0182	ND	103	70-130	15.3	30	
Chloroethane	0.0223	0.018	mg/Kg dry	0.0182	ND	122	70-130	14.7	30	V-20
Chloroform	0.0187	0.0036	mg/Kg dry	0.0182	ND	103	70-130	10.9	30	
Chloromethane	0.00942	0.0091	mg/Kg dry	0.0182	ND	51.7	* 70-130	10.9	30	L-04, MS-07A2, V-05
2-Chlorotoluene	0.0202	0.0018	mg/Kg dry	0.0182	ND	111	70-130	13.2	30	
4-Chlorotoluene	0.0206	0.0018	mg/Kg dry	0.0182	ND	113	70-130	12.5	30	
1,2-Dibromo-3-chloropropane (DBCP)	0.0145	0.0018	mg/Kg dry	0.0182	ND	79.8	70-130	26.9	30	
1,2-Dibromoethane (EDB)	0.0194	0.00091	mg/Kg dry	0.0182	ND	107	70-130	14.2	30	
Dibromomethane	0.0194	0.0018	mg/Kg dry	0.0182	ND	106	70-130	14.1	30	
1,2-Dichlorobenzene	0.0198	0.0018	mg/Kg dry	0.0182	ND	108	70-130	15.1	30	
1,3-Dichlorobenzene	0.0192	0.0018	mg/Kg dry	0.0182	ND	105	70-130	13.5	30	
1,4-Dichlorobenzene	0.0186	0.0018	mg/Kg dry	0.0182	ND	102	70-130	15.0	30	
trans-1,4-Dichloro-2-butene	0.0151	0.0036	mg/Kg dry	0.0182	ND	82.6	70-130	18.0	30	
Dichlorodifluoromethane (Freon 12)	0.0147	0.018	mg/Kg dry	0.0182	ND	80.4	70-130	12.2	30	J, V-35
1,1-Dichloroethane	0.0188	0.0018	mg/Kg dry	0.0182	ND	103	70-130	9.74	30	
1,2-Dichloroethane	0.0181	0.0018	mg/Kg dry	0.0182	ND	99.2	70-130	12.6	30	
1,1-Dichloroethylene	0.0188	0.0036	mg/Kg dry	0.0182	ND	103	70-130	10.1	30	
cis-1,2-Dichloroethylene	0.0190	0.0018	mg/Kg dry	0.0182	ND	104	70-130	8.31	30	
trans-1,2-Dichloroethylene	0.0179	0.0018	mg/Kg dry	0.0182	ND	98.1	70-130	7.47	30	
1,2-Dichloropropane	0.0193	0.0018	mg/Kg dry	0.0182	ND	106	70-130	10.6	30	
1,3-Dichloropropane	0.0193	0.00091	mg/Kg dry	0.0182	ND	106	70-130	13.9	30	
2,2-Dichloropropane	0.0171	0.0018	mg/Kg dry	0.0182	ND	94.1	70-130	10.1	30	
1,1-Dichloropropene	0.0185	0.0018	mg/Kg dry	0.0182	ND	102	70-130	9.14	30	
cis-1,3-Dichloropropene	0.0178	0.00091	mg/Kg dry	0.0182	ND	97.8	70-130	10.7	30	
trans-1,3-Dichloropropene	0.0187	0.00091	mg/Kg dry	0.0182	ND	102	70-130	13.4	30	
Diethyl Ether	0.0195	0.018	mg/Kg dry	0.0182	ND	107	70-130	13.0	30	
Diisopropyl Ether (DIPE)	0.0167	0.00091	mg/Kg dry	0.0182	ND	91.8	70-130	11.0	30	
1,4-Dioxane	0.166	0.091	mg/Kg dry	0.182	ND	90.9	70-130	15.5	30	
Ethylbenzene	0.0205	0.0018	mg/Kg dry	0.0182	ND	112	70-130	12.1	30	
Hexachlorobutadiene	0.0180	0.0018	mg/Kg dry	0.0182	ND	98.7	70-130	15.6	30	
2-Hexanone (MBK)	0.155	0.018	mg/Kg dry	0.182	ND	85.1	70-130	21.6	30	
Isopropylbenzene (Cumene)	0.0202	0.0018	mg/Kg dry	0.0182	ND	111	70-130	11.8	30	
p-Isopropyltoluene (p-Cymene)	0.0191	0.0018	mg/Kg dry	0.0182	ND	105	70-130	14.4	30	
Methyl Acetate	0.0151	0.0018	mg/Kg dry	0.0182	ND	83.1	70-130	3.08	30	

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QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342085 - SW-846 5035										
Matrix Spike Dup (B342085-MSD1)		Source: 23E3538-05		Prepared & Analyzed: 06/02/23						
Methyl tert-Butyl Ether (MTBE)	0.0155	0.0036	mg/Kg dry	0.0182	ND	84.8	70-130	12.1	30	
Methyl Cyclohexane	0.0176	0.0018	mg/Kg dry	0.0182	ND	96.4	70-130	14.9	30	
Methylene Chloride	0.0163	0.018	mg/Kg dry	0.0182	ND	89.5	70-130	10.5	30	J
4-Methyl-2-pentanone (MIBK)	0.164	0.018	mg/Kg dry	0.182	ND	90.2	70-130	20.6	30	
Naphthalene	0.0182	0.0036	mg/Kg dry	0.0182	ND	100	70-130	19.3	30	
n-Propylbenzene	0.0205	0.0018	mg/Kg dry	0.0182	ND	112	70-130	12.6	30	
Styrene	0.0210	0.0018	mg/Kg dry	0.0182	ND	115	70-130	11.6	30	
1,1,1,2-Tetrachloroethane	0.0208	0.0018	mg/Kg dry	0.0182	ND	114	70-130	10.1	30	
1,1,2,2-Tetrachloroethane	0.0218	0.00091	mg/Kg dry	0.0182	ND	120	70-130	16.1	30	V-20
Tetrachloroethylene	0.0200	0.0018	mg/Kg dry	0.0182	ND	110	70-130	11.2	30	
Tetrahydrofuran	0.0144	0.0091	mg/Kg dry	0.0182	ND	78.8	70-130	19.3	30	
Toluene	0.0183	0.0018	mg/Kg dry	0.0182	ND	100	70-130	13.4	30	
1,2,3-Trichlorobenzene	0.0188	0.0018	mg/Kg dry	0.0182	ND	103	70-130	13.9	30	
1,2,4-Trichlorobenzene	0.0190	0.0018	mg/Kg dry	0.0182	ND	104	70-130	13.7	30	
1,3,5-Trichlorobenzene	0.0183	0.0018	mg/Kg dry	0.0182	ND	100	70-130	15.5	30	
1,1,1-Trichloroethane	0.0185	0.0018	mg/Kg dry	0.0182	ND	101	70-130	10.8	30	
1,1,2-Trichloroethane	0.0202	0.0018	mg/Kg dry	0.0182	ND	111	70-130	13.8	30	
Trichloroethylene	0.0191	0.0018	mg/Kg dry	0.0182	ND	105	70-130	12.1	30	
Trichlorofluoromethane (Freon 11)	0.0207	0.0091	mg/Kg dry	0.0182	ND	114	70-130	12.7	30	
1,2,3-Trichloropropane	0.0188	0.0018	mg/Kg dry	0.0182	ND	103	70-130	16.9	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0192	0.0091	mg/Kg dry	0.0182	ND	106	70-130	9.93	30	
1,2,4-Trimethylbenzene	0.0182	0.0018	mg/Kg dry	0.0182	ND	99.7	70-130	13.5	30	
1,3,5-Trimethylbenzene	0.0198	0.0018	mg/Kg dry	0.0182	ND	109	70-130	12.8	30	
Vinyl Chloride	0.0152	0.0091	mg/Kg dry	0.0182	ND	83.6	70-130	10.3	30	
m+p Xylene	0.0411	0.0036	mg/Kg dry	0.0365	ND	113	70-130	10.5	30	
o-Xylene	0.0211	0.0018	mg/Kg dry	0.0182	ND	116	70-130	11.0	30	
Surrogate: 1,2-Dichloroethane-d4	0.0414		mg/Kg dry	0.0456		90.9	70-130			
Surrogate: Toluene-d8	0.0456		mg/Kg dry	0.0456		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0461		mg/Kg dry	0.0456		101	70-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes

Batch B341710 - SW-846 3510C
Blank (B341710-BLK1)

Prepared: 05/30/23 Analyzed: 06/06/23

Atrazine	ND	20	µg/L							
Benzaldehyde	ND	10	µg/L							
Biphenyl	ND	20	µg/L							
Caprolactam	ND	10	µg/L							L-04
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							V-05
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	20	µg/L							
2,4-Dinitrophenol	ND	20	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							V-05
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							L-04
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	10	µg/L							

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341710 - SW-846 3510C										
Blank (B341710-BLK1)										
Prepared: 05/30/23 Analyzed: 06/06/23										
3-Nitroaniline	ND	10	µg/L							V-20
4-Nitroaniline	ND	10	µg/L							V-20
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	20	µg/L							
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	236		µg/L	400		58.9	15-110			
Surrogate: Phenol-d6	156		µg/L	400		39.0	15-110			
Surrogate: Nitrobenzene-d5	161		µg/L	200		80.7	30-130			
Surrogate: 2-Fluorobiphenyl	142		µg/L	200		70.9	30-130			
Surrogate: 2,4,6-Tribromophenol	361		µg/L	400		90.3	15-110			
Surrogate: p-Terphenyl-d14	171		µg/L	200		85.3	30-130			
LCS (B341710-BS1)										
Prepared: 05/30/23 Analyzed: 06/06/23										
Atrazine	102	20	µg/L	100		102	40-140			
Benzaldehyde	74.2	10	µg/L	100		74.2	40-140			
Biphenyl	72.5	20	µg/L	100		72.5	40-140			
Caprolactam	29.7	10	µg/L	100		29.7	* 40-140			L-04
Acenaphthene	76.4	5.0	µg/L	100		76.4	40-140			
Acenaphthylene	80.4	5.0	µg/L	100		80.4	40-140			
Acetophenone	81.5	10	µg/L	100		81.5	40-140			
Anthracene	81.5	5.0	µg/L	100		81.5	40-140			
Benzo(a)anthracene	81.3	5.0	µg/L	100		81.3	40-140			
Benzo(a)pyrene	75.6	5.0	µg/L	100		75.6	40-140			
Benzo(b)fluoranthene	79.9	5.0	µg/L	100		79.9	40-140			
Benzo(g,h,i)perylene	92.2	5.0	µg/L	100		92.2	40-140			
Benzo(k)fluoranthene	86.4	5.0	µg/L	100		86.4	40-140			
Bis(2-chloroethoxy)methane	78.3	10	µg/L	100		78.3	40-140			
Bis(2-chloroethyl)ether	79.8	10	µg/L	100		79.8	40-140			
Bis(2-chloroisopropyl)ether	81.7	10	µg/L	100		81.7	40-140			
Bis(2-Ethylhexyl)phthalate	71.2	10	µg/L	100		71.2	40-140			
4-Bromophenylphenylether	76.0	10	µg/L	100		76.0	40-140			
Butylbenzylphthalate	74.1	10	µg/L	100		74.1	40-140			V-05
Carbazole	88.9	10	µg/L	100		88.9	40-140			
4-Chloroaniline	83.8	10	µg/L	100		83.8	40-140			
4-Chloro-3-methylphenol	81.1	10	µg/L	100		81.1	30-130			
2-Chloronaphthalene	63.0	10	µg/L	100		63.0	40-140			
2-Chlorophenol	74.4	10	µg/L	100		74.4	30-130			
4-Chlorophenylphenylether	79.9	10	µg/L	100		79.9	40-140			
Chrysene	79.0	5.0	µg/L	100		79.0	40-140			
Dibenz(a,h)anthracene	87.0	5.0	µg/L	100		87.0	40-140			
Dibenzofuran	82.3	5.0	µg/L	100		82.3	40-140			
Di-n-butylphthalate	76.2	10	µg/L	100		76.2	40-140			
3,3-Dichlorobenzidine	109	10	µg/L	100		109	40-140			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341710 - SW-846 3510C										
LCS (B341710-BS1)										
Prepared: 05/30/23 Analyzed: 06/06/23										
2,4-Dichlorophenol	78.4	10	µg/L	100		78.4	30-130			
Diethylphthalate	80.0	10	µg/L	100		80.0	40-140			
2,4-Dimethylphenol	72.4	10	µg/L	100		72.4	30-130			
Dimethylphthalate	81.4	10	µg/L	100		81.4	40-140			
4,6-Dinitro-2-methylphenol	76.3	20	µg/L	100		76.3	30-130			
2,4-Dinitrophenol	61.0	20	µg/L	100		61.0	30-130			
2,4-Dinitrotoluene	86.4	10	µg/L	100		86.4	40-140			
2,6-Dinitrotoluene	88.1	10	µg/L	100		88.1	40-140			
Di-n-octylphthalate	56.9	10	µg/L	100		56.9	40-140			V-05
Fluoranthene	87.0	5.0	µg/L	100		87.0	40-140			
Fluorene	81.6	5.0	µg/L	100		81.6	40-140			
Hexachlorobenzene	80.6	10	µg/L	100		80.6	40-140			
Hexachlorobutadiene	44.1	10	µg/L	100		44.1	40-140			
Hexachlorocyclopentadiene	56.6	10	µg/L	100		56.6	30-140			†
Hexachloroethane	26.0	10	µg/L	100		26.0	* 40-140			L-04
Indeno(1,2,3-cd)pyrene	87.4	5.0	µg/L	100		87.4	40-140			
Isophorone	85.6	10	µg/L	100		85.6	40-140			
2-Methylnaphthalene	69.8	5.0	µg/L	100		69.8	40-140			
2-Methylphenol	72.5	10	µg/L	100		72.5	30-130			
3/4-Methylphenol	71.8	10	µg/L	100		71.8	30-130			
Naphthalene	60.9	5.0	µg/L	100		60.9	40-140			
2-Nitroaniline	77.8	10	µg/L	100		77.8	40-140			
3-Nitroaniline	101	10	µg/L	100		101	40-140			V-20
4-Nitroaniline	98.6	10	µg/L	100		98.6	40-140			V-20
Nitrobenzene	75.0	10	µg/L	100		75.0	40-140			
2-Nitrophenol	68.9	10	µg/L	100		68.9	30-130			
4-Nitrophenol	52.6	20	µg/L	100		52.6	10-130			†
N-Nitrosodiphenylamine/Diphenylamine	78.5	10	µg/L	100		78.5	40-140			
N-Nitrosodi-n-propylamine	76.9	10	µg/L	100		76.9	40-140			
Pentachlorophenol	77.0	10	µg/L	100		77.0	30-130			
Phenanthrene	80.3	5.0	µg/L	100		80.3	40-140			
Phenol	40.8	10	µg/L	100		40.8	20-130			†
Pyrene	72.0	5.0	µg/L	100		72.0	40-140			
1,2,4,5-Tetrachlorobenzene	70.3	10	µg/L	100		70.3	40-140			
2,4,5-Trichlorophenol	79.1	10	µg/L	100		79.1	30-130			
2,4,6-Trichlorophenol	77.0	10	µg/L	100		77.0	30-130			
Surrogate: 2-Fluorophenol	245		µg/L	400		61.2	15-110			
Surrogate: Phenol-d6	170		µg/L	400		42.4	15-110			
Surrogate: Nitrobenzene-d5	160		µg/L	200		80.0	30-130			
Surrogate: 2-Fluorobiphenyl	154		µg/L	200		77.2	30-130			
Surrogate: 2,4,6-Tribromophenol	392		µg/L	400		98.1	15-110			
Surrogate: p-Terphenyl-d14	163		µg/L	200		81.5	30-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341710 - SW-846 3510C										
LCS Dup (B341710-BSD1)										
Prepared: 05/30/23 Analyzed: 06/06/23										
Atrazine	105	20	µg/L	100		105	40-140	2.44	20	
Benzaldehyde	73.4	10	µg/L	100		73.4	40-140	1.15	20	
Biphenyl	73.5	20	µg/L	100		73.5	40-140	1.33	20	
Caprolactam	31.5	10	µg/L	100		31.5	* 40-140	5.92	20	L-04
Acenaphthene	76.7	5.0	µg/L	100		76.7	40-140	0.353	20	
Acenaphthylene	81.4	5.0	µg/L	100		81.4	40-140	1.29	20	
Acetophenone	84.0	10	µg/L	100		84.0	40-140	3.05	20	
Anthracene	82.1	5.0	µg/L	100		82.1	40-140	0.672	20	
Benzo(a)anthracene	82.3	5.0	µg/L	100		82.3	40-140	1.25	20	
Benzo(a)pyrene	75.1	5.0	µg/L	100		75.1	40-140	0.770	20	
Benzo(b)fluoranthene	80.5	5.0	µg/L	100		80.5	40-140	0.648	20	
Benzo(g,h,i)perylene	91.5	5.0	µg/L	100		91.5	40-140	0.817	20	
Benzo(k)fluoranthene	87.0	5.0	µg/L	100		87.0	40-140	0.692	20	
Bis(2-chloroethoxy)methane	79.7	10	µg/L	100		79.7	40-140	1.76	20	
Bis(2-chloroethyl)ether	79.8	10	µg/L	100		79.8	40-140	0.0376	20	
Bis(2-chloroisopropyl)ether	80.9	10	µg/L	100		80.9	40-140	1.06	20	
Bis(2-Ethylhexyl)phthalate	72.7	10	µg/L	100		72.7	40-140	2.10	20	
4-Bromophenylphenylether	76.5	10	µg/L	100		76.5	40-140	0.643	20	
Butylbenzylphthalate	76.8	10	µg/L	100		76.8	40-140	3.58	20	V-05
Carbazole	89.9	10	µg/L	100		89.9	40-140	1.11	20	
4-Chloroaniline	89.5	10	µg/L	100		89.5	40-140	6.51	20	
4-Chloro-3-methylphenol	84.6	10	µg/L	100		84.6	30-130	4.31	20	
2-Chloronaphthalene	64.9	10	µg/L	100		64.9	40-140	3.00	20	
2-Chlorophenol	74.3	10	µg/L	100		74.3	30-130	0.0673	20	
4-Chlorophenylphenylether	80.5	10	µg/L	100		80.5	40-140	0.723	20	
Chrysene	79.8	5.0	µg/L	100		79.8	40-140	1.02	20	
Dibenz(a,h)anthracene	86.8	5.0	µg/L	100		86.8	40-140	0.207	20	
Dibenzofuran	82.4	5.0	µg/L	100		82.4	40-140	0.109	20	
Di-n-butylphthalate	77.7	10	µg/L	100		77.7	40-140	1.92	20	
3,3-Dichlorobenzidine	113	10	µg/L	100		113	40-140	3.32	20	
2,4-Dichlorophenol	79.9	10	µg/L	100		79.9	30-130	1.95	20	
Diethylphthalate	80.7	10	µg/L	100		80.7	40-140	0.908	20	
2,4-Dimethylphenol	75.4	10	µg/L	100		75.4	30-130	4.06	20	
Dimethylphthalate	83.8	10	µg/L	100		83.8	40-140	2.86	50	‡
4,6-Dinitro-2-methylphenol	79.6	20	µg/L	100		79.6	30-130	4.25	50	‡
2,4-Dinitrophenol	67.2	20	µg/L	100		67.2	30-130	9.69	50	‡
2,4-Dinitrotoluene	88.5	10	µg/L	100		88.5	40-140	2.39	20	
2,6-Dinitrotoluene	91.7	10	µg/L	100		91.7	40-140	3.97	20	
Di-n-octylphthalate	58.8	10	µg/L	100		58.8	40-140	3.34	20	V-05
Fluoranthene	87.5	5.0	µg/L	100		87.5	40-140	0.608	20	
Fluorene	81.6	5.0	µg/L	100		81.6	40-140	0.0123	20	
Hexachlorobenzene	79.4	10	µg/L	100		79.4	40-140	1.50	20	
Hexachlorobutadiene	42.5	10	µg/L	100		42.5	40-140	3.63	20	
Hexachlorocyclopentadiene	56.8	10	µg/L	100		56.8	30-140	0.370	50	† ‡
Hexachloroethane	28.7	10	µg/L	100		28.7	* 40-140	9.86	50	L-04 ‡
Indeno(1,2,3-cd)pyrene	87.4	5.0	µg/L	100		87.4	40-140	0.0686	50	‡
Isophorone	88.3	10	µg/L	100		88.3	40-140	3.12	20	
2-Methylnaphthalene	70.7	5.0	µg/L	100		70.7	40-140	1.30	20	
2-Methylphenol	76.8	10	µg/L	100		76.8	30-130	5.77	20	
3/4-Methylphenol	73.6	10	µg/L	100		73.6	30-130	2.59	20	
Naphthalene	61.6	5.0	µg/L	100		61.6	40-140	1.06	20	
2-Nitroaniline	79.0	10	µg/L	100		79.0	40-140	1.56	20	

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B341710 - SW-846 3510C
LCS Dup (B341710-BSD1)

Prepared: 05/30/23 Analyzed: 06/06/23

3-Nitroaniline	101	10	µg/L	100		101	40-140	0.168	20	V-20
4-Nitroaniline	100	10	µg/L	100		100	40-140	1.39	20	V-20
Nitrobenzene	78.2	10	µg/L	100		78.2	40-140	4.15	20	
2-Nitrophenol	70.1	10	µg/L	100		70.1	30-130	1.70	20	
4-Nitrophenol	53.6	20	µg/L	100		53.6	10-130	1.92	50	† ‡
N-Nitrosodiphenylamine/Diphenylamine	78.4	10	µg/L	100		78.4	40-140	0.191	20	
N-Nitrosodi-n-propylamine	79.4	10	µg/L	100		79.4	40-140	3.26	20	
Pentachlorophenol	77.8	10	µg/L	100		77.8	30-130	0.956	50	‡
Phenanthrene	81.2	5.0	µg/L	100		81.2	40-140	1.10	20	
Phenol	41.6	10	µg/L	100		41.6	20-130	1.82	20	†
Pyrene	72.2	5.0	µg/L	100		72.2	40-140	0.347	20	
1,2,4,5-Tetrachlorobenzene	71.1	10	µg/L	100		71.1	40-140	1.20	20	
2,4,5-Trichlorophenol	82.2	10	µg/L	100		82.2	30-130	3.79	20	
2,4,6-Trichlorophenol	78.3	10	µg/L	100		78.3	30-130	1.57	50	‡
Surrogate: 2-Fluorophenol	242		µg/L	400		60.6	15-110			
Surrogate: Phenol-d6	171		µg/L	400		42.7	15-110			
Surrogate: Nitrobenzene-d5	159		µg/L	200		79.6	30-130			
Surrogate: 2-Fluorobiphenyl	155		µg/L	200		77.3	30-130			
Surrogate: 2,4,6-Tribromophenol	383		µg/L	400		95.8	15-110			
Surrogate: p-Terphenyl-d14	163		µg/L	200		81.3	30-130			

Batch B341819 - SW-846 3510C
Blank (B341819-BLK1)

Prepared: 05/31/23 Analyzed: 06/06/23

Atrazine	ND	20	µg/L							
Benzaldehyde	ND	10	µg/L							
Biphenyl	ND	20	µg/L							
Caprolactam	ND	10	µg/L							L-04
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							V-05
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341819 - SW-846 3510C										
Blank (B341819-BLK1)				Prepared: 05/31/23 Analyzed: 06/06/23						
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	20	µg/L							
2,4-Dinitrophenol	ND	20	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							V-05
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							L-04
Hexachlorocyclopentadiene	ND	10	µg/L							L-04
Hexachloroethane	ND	10	µg/L							L-04
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							V-20
4-Nitroaniline	ND	10	µg/L							V-20
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	20	µg/L							
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	272		µg/L	400		68.0	15-110			
Surrogate: Phenol-d6	176		µg/L	400		43.9	15-110			
Surrogate: Nitrobenzene-d5	179		µg/L	200		89.3	30-130			
Surrogate: 2-Fluorobiphenyl	136		µg/L	200		68.0	30-130			
Surrogate: 2,4,6-Tribromophenol	365		µg/L	400		91.2	15-110			
Surrogate: p-Terphenyl-d14	188		µg/L	200		94.0	30-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341819 - SW-846 3510C										
LCS (B341819-BS1)				Prepared: 05/31/23 Analyzed: 06/06/23						
Atrazine	114	20	µg/L	100		114	40-140			
Benzaldehyde	92.3	10	µg/L	100		92.3	40-140			
Biphenyl	55.5	20	µg/L	100		55.5	40-140			
Caprolactam	35.0	10	µg/L	100		35.0	* 40-140			L-04
Acenaphthene	66.6	5.0	µg/L	100		66.6	40-140			
Acenaphthylene	72.9	5.0	µg/L	100		72.9	40-140			
Acetophenone	94.8	10	µg/L	100		94.8	40-140			
Anthracene	85.7	5.0	µg/L	100		85.7	40-140			
Benzo(a)anthracene	86.9	5.0	µg/L	100		86.9	40-140			
Benzo(a)pyrene	82.5	5.0	µg/L	100		82.5	40-140			
Benzo(b)fluoranthene	87.0	5.0	µg/L	100		87.0	40-140			
Benzo(g,h,i)perylene	97.0	5.0	µg/L	100		97.0	40-140			
Benzo(k)fluoranthene	92.1	5.0	µg/L	100		92.1	40-140			
Bis(2-chloroethoxy)methane	91.8	10	µg/L	100		91.8	40-140			
Bis(2-chloroethyl)ether	94.7	10	µg/L	100		94.7	40-140			
Bis(2-chloroisopropyl)ether	91.2	10	µg/L	100		91.2	40-140			
Bis(2-Ethylhexyl)phthalate	77.5	10	µg/L	100		77.5	40-140			
4-Bromophenylphenylether	76.8	10	µg/L	100		76.8	40-140			
Butylbenzylphthalate	82.2	10	µg/L	100		82.2	40-140			V-05
Carbazole	94.3	10	µg/L	100		94.3	40-140			
4-Chloroaniline	101	10	µg/L	100		101	40-140			
4-Chloro-3-methylphenol	90.6	10	µg/L	100		90.6	30-130			
2-Chloronaphthalene	50.4	10	µg/L	100		50.4	40-140			
2-Chlorophenol	85.8	10	µg/L	100		85.8	30-130			
4-Chlorophenylphenylether	79.0	10	µg/L	100		79.0	40-140			
Chrysene	85.4	5.0	µg/L	100		85.4	40-140			
Dibenz(a,h)anthracene	92.7	5.0	µg/L	100		92.7	40-140			
Dibenzofuran	78.0	5.0	µg/L	100		78.0	40-140			
Di-n-butylphthalate	82.1	10	µg/L	100		82.1	40-140			
3,3-Dichlorobenzidine	113	10	µg/L	100		113	40-140			
2,4-Dichlorophenol	87.9	10	µg/L	100		87.9	30-130			
Diethylphthalate	88.1	10	µg/L	100		88.1	40-140			
2,4-Dimethylphenol	73.7	10	µg/L	100		73.7	30-130			
Dimethylphthalate	89.2	10	µg/L	100		89.2	40-140			
4,6-Dinitro-2-methylphenol	80.0	20	µg/L	100		80.0	30-130			
2,4-Dinitrophenol	74.8	20	µg/L	100		74.8	30-130			
2,4-Dinitrotoluene	95.6	10	µg/L	100		95.6	40-140			
2,6-Dinitrotoluene	97.8	10	µg/L	100		97.8	40-140			
Di-n-octylphthalate	64.7	10	µg/L	100		64.7	40-140			V-05
Fluoranthene	92.4	5.0	µg/L	100		92.4	40-140			
Fluorene	80.9	5.0	µg/L	100		80.9	40-140			
Hexachlorobenzene	85.7	10	µg/L	100		85.7	40-140			
Hexachlorobutadiene	20.6	10	µg/L	100		20.6	* 40-140			L-04
Hexachlorocyclopentadiene	23.4	10	µg/L	100		23.4	* 30-140			L-04 †
Hexachloroethane	20.1	10	µg/L	100		20.1	* 40-140			L-04
Indeno(1,2,3-cd)pyrene	93.4	5.0	µg/L	100		93.4	40-140			
Isophorone	99.6	10	µg/L	100		99.6	40-140			
2-Methylnaphthalene	45.0	5.0	µg/L	100		45.0	40-140			
2-Methylphenol	83.3	10	µg/L	100		83.3	30-130			
3/4-Methylphenol	81.0	10	µg/L	100		81.0	30-130			
Naphthalene	46.2	5.0	µg/L	100		46.2	40-140			
2-Nitroaniline	88.0	10	µg/L	100		88.0	40-140			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B341819 - SW-846 3510C
LCS (B341819-BS1)

Prepared: 05/31/23 Analyzed: 06/06/23

3-Nitroaniline	109	10	µg/L	100		109	40-140			V-20
4-Nitroaniline	107	10	µg/L	100		107	40-140			V-20
Nitrobenzene	89.2	10	µg/L	100		89.2	40-140			
2-Nitrophenol	81.5	10	µg/L	100		81.5	30-130			
4-Nitrophenol	57.2	20	µg/L	100		57.2	10-130			†
N-Nitrosodiphenylamine/Diphenylamine	81.8	10	µg/L	100		81.8	40-140			
N-Nitrosodi-n-propylamine	89.9	10	µg/L	100		89.9	40-140			
Pentachlorophenol	84.4	10	µg/L	100		84.4	30-130			
Phenanthrene	84.1	5.0	µg/L	100		84.1	40-140			
Phenol	48.6	10	µg/L	100		48.6	20-130			†
Pyrene	77.3	5.0	µg/L	100		77.3	40-140			
1,2,4,5-Tetrachlorobenzene	43.7	10	µg/L	100		43.7	40-140			
2,4,5-Trichlorophenol	88.3	10	µg/L	100		88.3	30-130			
2,4,6-Trichlorophenol	82.5	10	µg/L	100		82.5	30-130			
Surrogate: 2-Fluorophenol	287		µg/L	400		71.7	15-110			
Surrogate: Phenol-d6	201		µg/L	400		50.2	15-110			
Surrogate: Nitrobenzene-d5	190		µg/L	200		94.8	30-130			
Surrogate: 2-Fluorobiphenyl	161		µg/L	200		80.3	30-130			
Surrogate: 2,4,6-Tribromophenol	428		µg/L	400		107	15-110			
Surrogate: p-Terphenyl-d14	177		µg/L	200		88.5	30-130			

LCS Dup (B341819-BSD1)

Prepared: 05/31/23 Analyzed: 06/06/23

Atrazine	111	20	µg/L	100		111	40-140	2.16	20	
Benzaldehyde	94.7	10	µg/L	100		94.7	40-140	2.52	20	
Biphenyl	56.3	20	µg/L	100		56.3	40-140	1.36	20	
Caprolactam	34.6	10	µg/L	100		34.6	* 40-140	1.15	20	L-04
Acenaphthene	68.0	5.0	µg/L	100		68.0	40-140	1.99	20	
Acenaphthylene	73.9	5.0	µg/L	100		73.9	40-140	1.36	20	
Acetophenone	94.9	10	µg/L	100		94.9	40-140	0.0843	20	
Anthracene	88.2	5.0	µg/L	100		88.2	40-140	2.87	20	
Benzo(a)anthracene	87.8	5.0	µg/L	100		87.8	40-140	0.950	20	
Benzo(a)pyrene	82.0	5.0	µg/L	100		82.0	40-140	0.669	20	
Benzo(b)fluoranthene	88.3	5.0	µg/L	100		88.3	40-140	1.46	20	
Benzo(g,h,i)perylene	98.3	5.0	µg/L	100		98.3	40-140	1.33	20	
Benzo(k)fluoranthene	91.4	5.0	µg/L	100		91.4	40-140	0.828	20	
Bis(2-chloroethoxy)methane	90.8	10	µg/L	100		90.8	40-140	1.17	20	
Bis(2-chloroethyl)ether	95.2	10	µg/L	100		95.2	40-140	0.516	20	
Bis(2-chloroisopropyl)ether	95.1	10	µg/L	100		95.1	40-140	4.15	20	
Bis(2-Ethylhexyl)phthalate	78.5	10	µg/L	100		78.5	40-140	1.31	20	
4-Bromophenylphenylether	77.5	10	µg/L	100		77.5	40-140	0.855	20	
Butylbenzylphthalate	82.2	10	µg/L	100		82.2	40-140	0.0365	20	V-05
Carbazole	96.0	10	µg/L	100		96.0	40-140	1.82	20	
4-Chloroaniline	97.4	10	µg/L	100		97.4	40-140	3.28	20	
4-Chloro-3-methylphenol	91.0	10	µg/L	100		91.0	30-130	0.430	20	
2-Chloronaphthalene	51.5	10	µg/L	100		51.5	40-140	2.26	20	
2-Chlorophenol	87.9	10	µg/L	100		87.9	30-130	2.37	20	
4-Chlorophenylphenylether	80.4	10	µg/L	100		80.4	40-140	1.81	20	
Chrysene	85.7	5.0	µg/L	100		85.7	40-140	0.327	20	
Dibenz(a,h)anthracene	93.5	5.0	µg/L	100		93.5	40-140	0.902	20	
Dibenzofuran	78.4	5.0	µg/L	100		78.4	40-140	0.537	20	
Di-n-butylphthalate	83.2	10	µg/L	100		83.2	40-140	1.23	20	
3,3-Dichlorobenzidine	115	10	µg/L	100		115	40-140	1.30	20	

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341819 - SW-846 3510C										
LCS Dup (B341819-BS1)										
Prepared: 05/31/23 Analyzed: 06/06/23										
2,4-Dichlorophenol	88.7	10	µg/L	100		88.7	30-130	0.985	20	
Diethylphthalate	87.4	10	µg/L	100		87.4	40-140	0.741	20	
2,4-Dimethylphenol	74.8	10	µg/L	100		74.8	30-130	1.48	20	
Dimethylphthalate	90.5	10	µg/L	100		90.5	40-140	1.41	50	‡
4,6-Dinitro-2-methylphenol	81.4	20	µg/L	100		81.4	30-130	1.71	50	‡
2,4-Dinitrophenol	71.1	20	µg/L	100		71.1	30-130	5.12	50	‡
2,4-Dinitrotoluene	98.1	10	µg/L	100		98.1	40-140	2.57	20	
2,6-Dinitrotoluene	98.3	10	µg/L	100		98.3	40-140	0.551	20	
Di-n-octylphthalate	64.7	10	µg/L	100		64.7	40-140	0.0309	20	V-05
Fluoranthene	94.4	5.0	µg/L	100		94.4	40-140	2.15	20	
Fluorene	82.2	5.0	µg/L	100		82.2	40-140	1.65	20	
Hexachlorobenzene	85.9	10	µg/L	100		85.9	40-140	0.256	20	
Hexachlorobutadiene	23.6	10	µg/L	100		23.6	* 40-140	13.5	20	L-04
Hexachlorocyclopentadiene	25.3	10	µg/L	100		25.3	* 30-140	7.80	50	L-04 † ‡
Hexachloroethane	23.9	10	µg/L	100		23.9	* 40-140	17.4	50	L-04 ‡
Indeno(1,2,3-cd)pyrene	95.1	5.0	µg/L	100		95.1	40-140	1.89	50	‡
Isophorone	97.5	10	µg/L	100		97.5	40-140	2.15	20	
2-Methylnaphthalene	46.5	5.0	µg/L	100		46.5	40-140	3.23	20	
2-Methylphenol	83.5	10	µg/L	100		83.5	30-130	0.180	20	
3/4-Methylphenol	81.2	10	µg/L	100		81.2	30-130	0.284	20	
Naphthalene	50.0	5.0	µg/L	100		50.0	40-140	7.85	20	
2-Nitroaniline	89.8	10	µg/L	100		89.8	40-140	2.11	20	
3-Nitroaniline	111	10	µg/L	100		111	40-140	1.55	20	V-20
4-Nitroaniline	110	10	µg/L	100		110	40-140	2.29	20	V-20
Nitrobenzene	88.3	10	µg/L	100		88.3	40-140	1.05	20	
2-Nitrophenol	83.5	10	µg/L	100		83.5	30-130	2.46	20	
4-Nitrophenol	59.5	20	µg/L	100		59.5	10-130	3.80	50	† ‡
N-Nitrosodiphenylamine/Diphenylamine	84.4	10	µg/L	100		84.4	40-140	3.10	20	
N-Nitrosodi-n-propylamine	90.6	10	µg/L	100		90.6	40-140	0.754	20	
Pentachlorophenol	84.2	10	µg/L	100		84.2	30-130	0.332	50	‡
Phenanthrene	86.4	5.0	µg/L	100		86.4	40-140	2.72	20	
Phenol	49.4	10	µg/L	100		49.4	20-130	1.76	20	†
Pyrene	77.9	5.0	µg/L	100		77.9	40-140	0.799	20	
1,2,4,5-Tetrachlorobenzene	46.1	10	µg/L	100		46.1	40-140	5.37	20	
2,4,5-Trichlorophenol	87.8	10	µg/L	100		87.8	30-130	0.659	20	
2,4,6-Trichlorophenol	83.7	10	µg/L	100		83.7	30-130	1.47	50	‡
Surrogate: 2-Fluorophenol	291		µg/L	400		72.8	15-110			
Surrogate: Phenol-d6	204		µg/L	400		51.0	15-110			
Surrogate: Nitrobenzene-d5	189		µg/L	200		94.3	30-130			
Surrogate: 2-Fluorobiphenyl	170		µg/L	200		85.1	30-130			
Surrogate: 2,4,6-Tribromophenol	422		µg/L	400		106	15-110			
Surrogate: p-Terphenyl-d14	176		µg/L	200		88.2	30-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341819 - SW-846 3510C										
Matrix Spike (B341819-MS1)	Source: 23E3538-04			Prepared: 05/31/23 Analyzed: 06/06/23						
Atrazine	101	18	µg/L	88.5	ND	114	40-140			
Benzaldehyde	82.4	8.8	µg/L	88.5	ND	93.1	40-140			
Biphenyl	51.8	18	µg/L	88.5	ND	58.6	40-140			
Caprolactam	26.8	8.8	µg/L	88.5	ND	30.2	* 40-140			MS-09
Acenaphthene	62.0	4.4	µg/L	88.5	ND	70.1	40-140			
Acenaphthylene	67.1	4.4	µg/L	88.5	ND	75.8	40-140			
Acetophenone	83.6	8.8	µg/L	88.5	ND	94.4	40-140			
Anthracene	78.1	4.4	µg/L	88.5	ND	88.3	40-140			
Benzo(a)anthracene	76.8	4.4	µg/L	88.5	ND	86.8	40-140			
Benzo(a)pyrene	72.9	4.4	µg/L	88.5	ND	82.4	40-140			
Benzo(b)fluoranthene	76.4	4.4	µg/L	88.5	ND	86.3	40-140			
Benzo(g,h,i)perylene	86.4	4.4	µg/L	88.5	ND	97.6	40-140			
Benzo(k)fluoranthene	81.6	4.4	µg/L	88.5	ND	92.2	40-140			
Bis(2-chloroethoxy)methane	81.2	8.8	µg/L	88.5	ND	91.7	40-140			
Bis(2-chloroethyl)ether	81.1	8.8	µg/L	88.5	ND	91.6	40-140			
Bis(2-chloroisopropyl)ether	83.1	8.8	µg/L	88.5	ND	94.0	40-140			
Bis(2-Ethylhexyl)phthalate	69.3	8.8	µg/L	88.5	ND	78.3	40-140			
4-Bromophenylphenylether	70.1	8.8	µg/L	88.5	ND	79.2	40-140			
Butylbenzylphthalate	71.7	8.8	µg/L	88.5	ND	81.0	40-140			V-05
Carbazole	85.0	8.8	µg/L	88.5	ND	96.0	40-140			
4-Chloroaniline	80.4	8.8	µg/L	88.5	ND	90.8	40-140			
4-Chloro-3-methylphenol	77.6	8.8	µg/L	88.5	ND	87.6	30-130			
2-Chloronaphthalene	45.1	8.8	µg/L	88.5	ND	51.0	40-140			
2-Chlorophenol	73.3	8.8	µg/L	88.5	ND	82.8	30-130			
4-Chlorophenylphenylether	70.9	8.8	µg/L	88.5	ND	80.1	40-140			
Chrysene	75.6	4.4	µg/L	88.5	ND	85.4	40-140			
Dibenz(a,h)anthracene	83.4	4.4	µg/L	88.5	ND	94.2	40-140			
Dibenzofuran	70.3	4.4	µg/L	88.5	ND	79.4	40-140			
Di-n-butylphthalate	74.8	8.8	µg/L	88.5	ND	84.5	40-140			
3,3-Dichlorobenzidine	95.4	8.8	µg/L	88.5	ND	108	40-140			
2,4-Dichlorophenol	75.9	8.8	µg/L	88.5	ND	85.7	30-130			
Diethylphthalate	77.6	8.8	µg/L	88.5	ND	87.7	40-140			
2,4-Dimethylphenol	64.9	8.8	µg/L	88.5	ND	73.4	30-130			
Dimethylphthalate	79.7	8.8	µg/L	88.5	ND	90.1	40-140			
4,6-Dinitro-2-methylphenol	70.2	18	µg/L	88.5	ND	79.4	30-130			
2,4-Dinitrophenol	51.9	18	µg/L	88.5	ND	58.7	30-130			R-06
2,4-Dinitrotoluene	84.9	8.8	µg/L	88.5	ND	95.9	40-140			
2,6-Dinitrotoluene	87.5	8.8	µg/L	88.5	ND	98.8	40-140			
Di-n-octylphthalate	58.2	8.8	µg/L	88.5	ND	65.7	40-140			V-05
Fluoranthene	83.4	4.4	µg/L	88.5	ND	94.2	40-140			
Fluorene	72.8	4.4	µg/L	88.5	ND	82.2	40-140			
Hexachlorobenzene	76.1	8.8	µg/L	88.5	ND	86.0	40-140			
Hexachlorobutadiene	24.7	8.8	µg/L	88.5	ND	27.9	* 40-140			MS-09
Hexachlorocyclopentadiene	24.8	8.8	µg/L	88.5	ND	28.0	* 30-130			MS-22
Hexachloroethane	24.6	8.8	µg/L	88.5	ND	27.8	* 40-140			MS-09
Indeno(1,2,3-cd)pyrene	83.6	4.4	µg/L	88.5	ND	94.5	40-140			
Isophorone	85.9	8.8	µg/L	88.5	ND	97.0	40-140			
2-Methylnaphthalene	43.8	4.4	µg/L	88.5	ND	49.5	40-140			
2-Methylphenol	68.9	8.8	µg/L	88.5	ND	77.9	30-130			
3/4-Methylphenol	66.8	8.8	µg/L	88.5	ND	75.4	30-130			
Naphthalene	44.5	4.4	µg/L	88.5	ND	50.3	40-140			
2-Nitroaniline	77.2	8.8	µg/L	88.5	ND	87.2	40-140			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341819 - SW-846 3510C										
Matrix Spike (B341819-MS1)	Source: 23E3538-04			Prepared: 05/31/23 Analyzed: 06/06/23						
3-Nitroaniline	92.8	8.8	µg/L	88.5	ND	105	40-140			V-20
4-Nitroaniline	93.6	8.8	µg/L	88.5	ND	106	40-140			V-20
Nitrobenzene	77.4	8.8	µg/L	88.5	ND	87.4	40-140			
2-Nitrophenol	71.5	8.8	µg/L	88.5	ND	80.8	30-130			
4-Nitrophenol	47.0	18	µg/L	88.5	ND	53.2	30-130			
N-Nitrosodiphenylamine/Diphenylamine	73.5	8.8	µg/L	88.5	ND	83.0	40-140			
N-Nitrosodi-n-propylamine	79.4	8.8	µg/L	88.5	ND	89.7	40-140			
Pentachlorophenol	78.1	8.8	µg/L	88.5	ND	88.2	30-130			
Phenanthrene	76.8	4.4	µg/L	88.5	ND	86.8	40-140			
Phenol	37.8	8.8	µg/L	88.5	ND	42.7	30-130			
Pyrene	69.5	4.4	µg/L	88.5	ND	78.5	40-140			
1,2,4,5-Tetrachlorobenzene	43.0	8.8	µg/L	88.5	ND	48.6	40-140			
2,4,5-Trichlorophenol	77.8	8.8	µg/L	88.5	ND	87.9	30-130			
2,4,6-Trichlorophenol	75.1	8.8	µg/L	88.5	ND	84.8	30-130			
Surrogate: 2-Fluorophenol	230		µg/L	354		65.0	15-110			
Surrogate: Phenol-d6	155		µg/L	354		43.7	15-110			
Surrogate: Nitrobenzene-d5	164		µg/L	177		92.4	30-130			
Surrogate: 2-Fluorobiphenyl	145		µg/L	177		82.2	30-130			
Surrogate: 2,4,6-Tribromophenol	371		µg/L	354		105	15-110			
Surrogate: p-Terphenyl-d14	157		µg/L	177		88.8	30-130			
Matrix Spike Dup (B341819-MSD1)	Source: 23E3538-04			Prepared: 05/31/23 Analyzed: 06/06/23						
Atrazine	95.1	18	µg/L	88.5	ND	107	40-140	6.00	30	
Benzaldehyde	76.8	8.8	µg/L	88.5	ND	86.8	40-140	7.01	30	
Biphenyl	51.7	18	µg/L	88.5	ND	58.4	40-140	0.205	30	
Caprolactam	30.3	8.8	µg/L	88.5	ND	34.3	* 40-140	12.5	30	MS-09
Acenaphthene	60.2	4.4	µg/L	88.5	ND	68.0	40-140	3.07	30	
Acenaphthylene	66.1	4.4	µg/L	88.5	ND	74.7	40-140	1.57	30	
Acetophenone	82.0	8.8	µg/L	88.5	ND	92.6	40-140	1.96	30	
Anthracene	73.1	4.4	µg/L	88.5	ND	82.6	40-140	6.64	30	
Benzo(a)anthracene	72.8	4.4	µg/L	88.5	ND	82.3	40-140	5.37	30	
Benzo(a)pyrene	68.2	4.4	µg/L	88.5	ND	77.1	40-140	6.65	30	
Benzo(b)fluoranthene	71.8	4.4	µg/L	88.5	ND	81.2	40-140	6.15	30	
Benzo(g,h,i)perylene	81.5	4.4	µg/L	88.5	ND	92.0	40-140	5.86	30	
Benzo(k)fluoranthene	76.4	4.4	µg/L	88.5	ND	86.3	40-140	6.55	30	
Bis(2-chloroethoxy)methane	77.4	8.8	µg/L	88.5	ND	87.5	40-140	4.78	30	
Bis(2-chloroethyl)ether	80.4	8.8	µg/L	88.5	ND	90.8	40-140	0.877	30	
Bis(2-chloroisopropyl)ether	82.6	8.8	µg/L	88.5	ND	93.3	40-140	0.705	30	
Bis(2-Ethylhexyl)phthalate	65.2	8.8	µg/L	88.5	ND	73.7	40-140	6.09	30	
4-Bromophenylphenylether	66.4	8.8	µg/L	88.5	ND	75.0	40-140	5.43	30	
Butylbenzylphthalate	68.0	8.8	µg/L	88.5	ND	76.8	40-140	5.32	30	V-05
Carbazole	79.0	8.8	µg/L	88.5	ND	89.2	40-140	7.34	30	
4-Chloroaniline	79.0	8.8	µg/L	88.5	ND	89.2	40-140	1.75	30	
4-Chloro-3-methylphenol	77.2	8.8	µg/L	88.5	ND	87.2	30-130	0.469	30	
2-Chloronaphthalene	48.4	8.8	µg/L	88.5	ND	54.7	40-140	6.97	30	
2-Chlorophenol	74.6	8.8	µg/L	88.5	ND	84.3	30-130	1.82	30	
4-Chlorophenylphenylether	67.5	8.8	µg/L	88.5	ND	76.2	40-140	4.92	30	
Chrysene	71.6	4.4	µg/L	88.5	ND	80.9	40-140	5.48	30	
Dibenz(a,h)anthracene	77.5	4.4	µg/L	88.5	ND	87.5	40-140	7.35	30	
Dibenzofuran	67.6	4.4	µg/L	88.5	ND	76.4	40-140	3.89	30	
Di-n-butylphthalate	70.1	8.8	µg/L	88.5	ND	79.2	40-140	6.44	30	
3,3-Dichlorobenzidine	90.8	8.8	µg/L	88.5	ND	103	40-140	4.95	30	

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341819 - SW-846 3510C										
Matrix Spike Dup (B341819-MSD1)	Source: 23E3538-04			Prepared: 05/31/23 Analyzed: 06/06/23						
2,4-Dichlorophenol	76.8	8.8	µg/L	88.5	ND	86.8	30-130	1.17	30	
Diethylphthalate	73.6	8.8	µg/L	88.5	ND	83.1	40-140	5.31	30	
2,4-Dimethylphenol	61.1	8.8	µg/L	88.5	ND	69.1	30-130	6.04	30	
Dimethylphthalate	76.5	8.8	µg/L	88.5	ND	86.4	40-140	4.09	30	
4,6-Dinitro-2-methylphenol	63.2	18	µg/L	88.5	ND	71.4	30-130	10.6	30	
2,4-Dinitrophenol	18.0	18	µg/L	88.5	ND	20.4	* 30-130	97.0	* 30	MS-23
2,4-Dinitrotoluene	78.7	8.8	µg/L	88.5	ND	88.9	40-140	7.60	30	
2,6-Dinitrotoluene	84.0	8.8	µg/L	88.5	ND	94.9	40-140	4.09	30	
Di-n-octylphthalate	53.4	8.8	µg/L	88.5	ND	60.4	40-140	8.45	30	V-05
Fluoranthene	79.1	4.4	µg/L	88.5	ND	89.4	40-140	5.28	30	
Fluorene	69.8	4.4	µg/L	88.5	ND	78.9	40-140	4.13	30	
Hexachlorobenzene	72.9	8.8	µg/L	88.5	ND	82.4	40-140	4.25	30	
Hexachlorobutadiene	26.3	8.8	µg/L	88.5	ND	29.7	* 40-140	6.18	30	MS-09
Hexachlorocyclopentadiene	28.6	8.8	µg/L	88.5	ND	32.3	30-130	14.2	30	
Hexachloroethane	23.2	8.8	µg/L	88.5	ND	26.2	* 40-140	5.59	30	MS-09
Indeno(1,2,3-cd)pyrene	78.8	4.4	µg/L	88.5	ND	89.1	40-140	5.89	30	
Isophorone	83.2	8.8	µg/L	88.5	ND	94.0	40-140	3.24	30	
2-Methylnaphthalene	45.8	4.4	µg/L	88.5	ND	51.8	40-140	4.58	30	
2-Methylphenol	69.5	8.8	µg/L	88.5	ND	78.5	30-130	0.742	30	
3/4-Methylphenol	67.3	8.8	µg/L	88.5	ND	76.0	30-130	0.753	30	
Naphthalene	48.0	4.4	µg/L	88.5	ND	54.3	40-140	7.61	30	
2-Nitroaniline	73.2	8.8	µg/L	88.5	ND	82.7	40-140	5.31	30	
3-Nitroaniline	90.0	8.8	µg/L	88.5	ND	102	40-140	3.12	30	V-20
4-Nitroaniline	89.8	8.8	µg/L	88.5	ND	101	40-140	4.10	30	V-20
Nitrobenzene	76.7	8.8	µg/L	88.5	ND	86.7	40-140	0.827	30	
2-Nitrophenol	72.0	8.8	µg/L	88.5	ND	81.4	30-130	0.740	30	
4-Nitrophenol	39.4	18	µg/L	88.5	ND	44.5	30-130	17.6	30	
N-Nitrosodiphenylamine/Diphenylamine	68.6	8.8	µg/L	88.5	ND	77.5	40-140	6.94	30	
N-Nitrosodi-n-propylamine	78.0	8.8	µg/L	88.5	ND	88.1	40-140	1.82	30	
Pentachlorophenol	68.4	8.8	µg/L	88.5	ND	77.3	30-130	13.2	30	
Phenanthrene	73.1	4.4	µg/L	88.5	ND	82.6	40-140	4.89	30	
Phenol	39.6	8.8	µg/L	88.5	ND	44.7	30-130	4.57	30	
Pyrene	65.2	4.4	µg/L	88.5	ND	73.6	40-140	6.45	30	
1,2,4,5-Tetrachlorobenzene	44.4	8.8	µg/L	88.5	ND	50.2	40-140	3.24	30	
2,4,5-Trichlorophenol	72.4	8.8	µg/L	88.5	ND	81.8	30-130	7.22	30	
2,4,6-Trichlorophenol	69.9	8.8	µg/L	88.5	ND	79.0	30-130	7.15	30	
Surrogate: 2-Fluorophenol	227		µg/L	354		64.2	15-110			
Surrogate: Phenol-d6	158		µg/L	354		44.6	15-110			
Surrogate: Nitrobenzene-d5	157		µg/L	177		88.7	30-130			
Surrogate: 2-Fluorobiphenyl	139		µg/L	177		78.7	30-130			
Surrogate: 2,4,6-Tribromophenol	353		µg/L	354		99.8	15-110			
Surrogate: p-Terphenyl-d14	143		µg/L	177		80.6	30-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes

Batch B341823 - SW-846 3510C
Blank (B341823-BLK1)

Prepared: 05/31/23 Analyzed: 06/10/23

Atrazine	ND	24	µg/L							
Benzaldehyde	ND	12	µg/L							
Biphenyl	ND	24	µg/L							
Caprolactam	ND	12	µg/L							L-04
Acenaphthene	ND	6.0	µg/L							
Acenaphthylene	ND	6.0	µg/L							
Acetophenone	ND	12	µg/L							
Anthracene	ND	6.0	µg/L							
Benzo(a)anthracene	ND	6.0	µg/L							
Benzo(a)pyrene	ND	6.0	µg/L							
Benzo(b)fluoranthene	ND	6.0	µg/L							
Benzo(g,h,i)perylene	ND	6.0	µg/L							
Benzo(k)fluoranthene	ND	6.0	µg/L							
Bis(2-chloroethoxy)methane	ND	12	µg/L							
Bis(2-chloroethyl)ether	ND	12	µg/L							
Bis(2-chloroisopropyl)ether	ND	12	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	12	µg/L							V-04
4-Bromophenylphenylether	ND	12	µg/L							
Butylbenzylphthalate	ND	12	µg/L							V-35
Carbazole	ND	12	µg/L							
4-Chloroaniline	ND	12	µg/L							
4-Chloro-3-methylphenol	ND	12	µg/L							
2-Chloronaphthalene	ND	12	µg/L							
2-Chlorophenol	ND	12	µg/L							
4-Chlorophenylphenylether	ND	12	µg/L							
Chrysene	ND	6.0	µg/L							
Dibenz(a,h)anthracene	ND	6.0	µg/L							
Dibenzofuran	ND	6.0	µg/L							
Di-n-butylphthalate	5.4	12	µg/L							J
3,3-Dichlorobenzidine	ND	12	µg/L							
2,4-Dichlorophenol	ND	12	µg/L							
Diethylphthalate	ND	12	µg/L							
2,4-Dimethylphenol	ND	12	µg/L							
Dimethylphthalate	ND	12	µg/L							
4,6-Dinitro-2-methylphenol	ND	24	µg/L							V-04
2,4-Dinitrophenol	ND	12	µg/L							V-04
2,4-Dinitrotoluene	ND	12	µg/L							
2,6-Dinitrotoluene	ND	12	µg/L							
Di-n-octylphthalate	ND	12	µg/L							V-04
Fluoranthene	ND	6.0	µg/L							
Fluorene	ND	6.0	µg/L							
Hexachlorobenzene	ND	12	µg/L							
Hexachlorobutadiene	ND	12	µg/L							L-04
Hexachlorocyclopentadiene	ND	12	µg/L							
Hexachloroethane	ND	12	µg/L							L-04
Indeno(1,2,3-cd)pyrene	ND	6.0	µg/L							
Isophorone	ND	12	µg/L							
2-Methylnaphthalene	ND	6.0	µg/L							
2-Methylphenol	ND	12	µg/L							
3/4-Methylphenol	ND	12	µg/L							
Naphthalene	ND	6.0	µg/L							
2-Nitroaniline	ND	12	µg/L							

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B341823 - SW-846 3510C
Blank (B341823-BLK1)

Prepared: 05/31/23 Analyzed: 06/10/23

3-Nitroaniline	ND	12	µg/L							
4-Nitroaniline	ND	12	µg/L							
Nitrobenzene	ND	12	µg/L							
2-Nitrophenol	ND	12	µg/L							
4-Nitrophenol	ND	12	µg/L							
N-Nitrosodiphenylamine/Diphenylamine	ND	12	µg/L							
N-Nitrosodi-n-propylamine	ND	12	µg/L							
Pentachlorophenol	ND	12	µg/L							
Phenanthrene	ND	6.0	µg/L							
Phenol	ND	12	µg/L							
Pyrene	ND	6.0	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	12	µg/L							
2,4,5-Trichlorophenol	ND	12	µg/L							
2,4,6-Trichlorophenol	ND	12	µg/L							
Surrogate: 2-Fluorophenol	197		µg/L	400		49.3	15-110			
Surrogate: Phenol-d6	144		µg/L	400		36.0	15-110			
Surrogate: Nitrobenzene-d5	131		µg/L	200		65.4	30-130			
Surrogate: 2-Fluorobiphenyl	104		µg/L	200		51.9	30-130			
Surrogate: 2,4,6-Tribromophenol	349		µg/L	400		87.3	15-110			
Surrogate: p-Terphenyl-d14	201		µg/L	200		100	30-130			

LCS (B341823-BS1)

Prepared: 05/31/23 Analyzed: 06/10/23

Atrazine	87.7	24	µg/L	100		87.7	40-140			
Benzaldehyde	70.3	12	µg/L	100		70.3	40-140			
Biphenyl	60.1	24	µg/L	100		60.1	40-140			
Caprolactam	26.7	12	µg/L	100		26.7	* 40-140			L-04
Acenaphthene	69.6	6.0	µg/L	100		69.6	40-140			
Acenaphthylene	74.7	6.0	µg/L	100		74.7	40-140			
Acetophenone	78.8	12	µg/L	100		78.8	40-140			
Anthracene	83.8	6.0	µg/L	100		83.8	40-140			
Benzo(a)anthracene	83.4	6.0	µg/L	100		83.4	40-140			
Benzo(a)pyrene	80.0	6.0	µg/L	100		80.0	40-140			
Benzo(b)fluoranthene	85.9	6.0	µg/L	100		85.9	40-140			
Benzo(g,h,i)perylene	86.4	6.0	µg/L	100		86.4	40-140			
Benzo(k)fluoranthene	88.5	6.0	µg/L	100		88.5	40-140			
Bis(2-chloroethoxy)methane	71.5	12	µg/L	100		71.5	40-140			
Bis(2-chloroethyl)ether	78.1	12	µg/L	100		78.1	40-140			
Bis(2-chloroisopropyl)ether	70.2	12	µg/L	100		70.2	40-140			
Bis(2-Ethylhexyl)phthalate	86.9	12	µg/L	100		86.9	40-140			V-04
4-Bromophenylphenylether	79.5	12	µg/L	100		79.5	40-140			
Butylbenzylphthalate	104	12	µg/L	100		104	40-140			V-35
Carbazole	78.9	12	µg/L	100		78.9	40-140			
4-Chloroaniline	80.1	12	µg/L	100		80.1	40-140			
4-Chloro-3-methylphenol	79.4	12	µg/L	100		79.4	30-130			
2-Chloronaphthalene	54.0	12	µg/L	100		54.0	40-140			
2-Chlorophenol	65.5	12	µg/L	100		65.5	30-130			
4-Chlorophenylphenylether	75.1	12	µg/L	100		75.1	40-140			
Chrysene	78.4	6.0	µg/L	100		78.4	40-140			
Dibenz(a,h)anthracene	86.7	6.0	µg/L	100		86.7	40-140			
Dibenzofuran	76.7	6.0	µg/L	100		76.7	40-140			
Di-n-butylphthalate	88.4	12	µg/L	100		88.4	40-140			
3,3-Dichlorobenzidine	95.8	12	µg/L	100		95.8	40-140			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341823 - SW-846 3510C										
LCS (B341823-BS1)										
Prepared: 05/31/23 Analyzed: 06/10/23										
2,4-Dichlorophenol	72.3	12	µg/L	100		72.3	30-130			
Diethylphthalate	80.2	12	µg/L	100		80.2	40-140			
2,4-Dimethylphenol	67.7	12	µg/L	100		67.7	30-130			
Dimethylphthalate	83.1	12	µg/L	100		83.1	40-140			
4,6-Dinitro-2-methylphenol	12.8	24	µg/L	100		12.8	* 30-130			L-07A, V-04, J
2,4-Dinitrophenol	0.820	12	µg/L	100		0.820	* 30-130			J, L-07A, V-04
2,4-Dinitrotoluene	82.9	12	µg/L	100		82.9	40-140			
2,6-Dinitrotoluene	95.5	12	µg/L	100		95.5	40-140			
Di-n-octylphthalate	83.2	12	µg/L	100		83.2	40-140			V-04
Fluoranthene	83.0	6.0	µg/L	100		83.0	40-140			
Fluorene	78.4	6.0	µg/L	100		78.4	40-140			
Hexachlorobenzene	83.3	12	µg/L	100		83.3	40-140			
Hexachlorobutadiene	22.4	12	µg/L	100		22.4	* 40-140			L-04
Hexachlorocyclopentadiene	31.7	12	µg/L	100		31.7	30-140			†
Hexachloroethane	11.8	12	µg/L	100		11.8	* 40-140			J, L-04
Indeno(1,2,3-cd)pyrene	88.9	6.0	µg/L	100		88.9	40-140			
Isophorone	85.6	12	µg/L	100		85.6	40-140			
2-Methylnaphthalene	49.0	6.0	µg/L	100		49.0	40-140			
2-Methylphenol	72.0	12	µg/L	100		72.0	30-130			
3/4-Methylphenol	68.8	12	µg/L	100		68.8	30-130			
Naphthalene	42.0	6.0	µg/L	100		42.0	40-140			
2-Nitroaniline	81.8	12	µg/L	100		81.8	40-140			
3-Nitroaniline	89.7	12	µg/L	100		89.7	40-140			
4-Nitroaniline	85.8	12	µg/L	100		85.8	40-140			
Nitrobenzene	71.0	12	µg/L	100		71.0	40-140			
2-Nitrophenol	52.0	12	µg/L	100		52.0	30-130			
4-Nitrophenol	9.57	12	µg/L	100		9.57	* 10-130			L-07A, J †
N-Nitrosodiphenylamine/Diphenylamine	83.2	12	µg/L	100		83.2	40-140			
N-Nitrosodi-n-propylamine	78.9	12	µg/L	100		78.9	40-140			
Pentachlorophenol	47.6	12	µg/L	100		47.6	30-130			
Phenanthrene	80.3	6.0	µg/L	100		80.3	40-140			
Phenol	37.2	12	µg/L	100		37.2	20-130			†
Pyrene	84.1	6.0	µg/L	100		84.1	40-140			
1,2,4,5-Tetrachlorobenzene	51.9	12	µg/L	100		51.9	40-140			
2,4,5-Trichlorophenol	73.0	12	µg/L	100		73.0	30-130			
2,4,6-Trichlorophenol	53.6	12	µg/L	100		53.6	30-130			
Surrogate: 2-Fluorophenol	154		µg/L	400		38.6	15-110			
Surrogate: Phenol-d6	170		µg/L	400		42.6	15-110			
Surrogate: Nitrobenzene-d5	169		µg/L	200		84.5	30-130			
Surrogate: 2-Fluorobiphenyl	152		µg/L	200		76.1	30-130			
Surrogate: 2,4,6-Tribromophenol	356		µg/L	400		89.0	15-110			
Surrogate: p-Terphenyl-d14	192		µg/L	200		96.2	30-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341823 - SW-846 3510C										
LCS Dup (B341823-BSD1)										
Prepared: 05/31/23 Analyzed: 06/10/23										
Atrazine	95.8	24	µg/L	100		95.8	40-140	8.80	20	
Benzaldehyde	63.5	12	µg/L	100		63.5	40-140	10.3	20	
Biphenyl	53.7	24	µg/L	100		53.7	40-140	11.3	20	
Caprolactam	25.1	12	µg/L	100		25.1	* 40-140	6.07	20	L-04
Acenaphthene	63.2	6.0	µg/L	100		63.2	40-140	9.61	20	
Acenaphthylene	69.8	6.0	µg/L	100		69.8	40-140	6.78	20	
Acetophenone	70.2	12	µg/L	100		70.2	40-140	11.5	20	
Anthracene	76.4	6.0	µg/L	100		76.4	40-140	9.33	20	
Benzo(a)anthracene	79.0	6.0	µg/L	100		79.0	40-140	5.36	20	
Benzo(a)pyrene	75.6	6.0	µg/L	100		75.6	40-140	5.55	20	
Benzo(b)fluoranthene	81.5	6.0	µg/L	100		81.5	40-140	5.23	20	
Benzo(g,h,i)perylene	81.3	6.0	µg/L	100		81.3	40-140	6.09	20	
Benzo(k)fluoranthene	83.0	6.0	µg/L	100		83.0	40-140	6.41	20	
Bis(2-chloroethoxy)methane	68.7	12	µg/L	100		68.7	40-140	4.04	20	
Bis(2-chloroethyl)ether	69.4	12	µg/L	100		69.4	40-140	11.9	20	
Bis(2-chloroisopropyl)ether	70.9	12	µg/L	100		70.9	40-140	1.05	20	
Bis(2-Ethylhexyl)phthalate	81.4	12	µg/L	100		81.4	40-140	6.55	20	V-04
4-Bromophenylphenylether	69.4	12	µg/L	100		69.4	40-140	13.6	20	
Butylbenzylphthalate	94.6	12	µg/L	100		94.6	40-140	9.39	20	V-35
Carbazole	78.3	12	µg/L	100		78.3	40-140	0.763	20	
4-Chloroaniline	71.1	12	µg/L	100		71.1	40-140	11.9	20	
4-Chloro-3-methylphenol	75.2	12	µg/L	100		75.2	30-130	5.36	20	
2-Chloronaphthalene	47.6	12	µg/L	100		47.6	40-140	12.6	20	
2-Chlorophenol	63.9	12	µg/L	100		63.9	30-130	2.50	20	
4-Chlorophenylphenylether	68.2	12	µg/L	100		68.2	40-140	9.72	20	
Chrysene	74.2	6.0	µg/L	100		74.2	40-140	5.60	20	
Dibenz(a,h)anthracene	82.2	6.0	µg/L	100		82.2	40-140	5.40	20	
Dibenzofuran	68.3	6.0	µg/L	100		68.3	40-140	11.6	20	
Di-n-butylphthalate	84.2	12	µg/L	100		84.2	40-140	4.81	20	
3,3-Dichlorobenzidine	88.4	12	µg/L	100		88.4	40-140	8.02	20	
2,4-Dichlorophenol	68.3	12	µg/L	100		68.3	30-130	5.62	20	
Diethylphthalate	78.5	12	µg/L	100		78.5	40-140	2.19	20	
2,4-Dimethylphenol	62.3	12	µg/L	100		62.3	30-130	8.35	20	
Dimethylphthalate	78.9	12	µg/L	100		78.9	40-140	5.14	50	‡
4,6-Dinitro-2-methylphenol	75.9	24	µg/L	100		75.9	30-130	142	* 50	R-05, V-04 ‡
2,4-Dinitrophenol	67.3	12	µg/L	100		67.3	30-130	195	* 50	R-05, V-04 ‡
2,4-Dinitrotoluene	83.3	12	µg/L	100		83.3	40-140	0.469	20	
2,6-Dinitrotoluene	86.2	12	µg/L	100		86.2	40-140	10.3	20	
Di-n-octylphthalate	77.2	12	µg/L	100		77.2	40-140	7.57	20	V-04
Fluoranthene	77.7	6.0	µg/L	100		77.7	40-140	6.61	20	
Fluorene	70.6	6.0	µg/L	100		70.6	40-140	10.5	20	
Hexachlorobenzene	73.7	12	µg/L	100		73.7	40-140	12.3	20	
Hexachlorobutadiene	19.9	12	µg/L	100		19.9	* 40-140	11.6	20	L-04
Hexachlorocyclopentadiene	25.3	12	µg/L	100		25.3	* 30-140	22.5	50	L-07 † ‡
Hexachloroethane	17.6	12	µg/L	100		17.6	* 40-140	39.5	50	L-04 ‡
Indeno(1,2,3-cd)pyrene	83.6	6.0	µg/L	100		83.6	40-140	6.11	50	‡
Isophorone	77.1	12	µg/L	100		77.1	40-140	10.4	20	
2-Methylnaphthalene	45.8	6.0	µg/L	100		45.8	40-140	6.67	20	
2-Methylphenol	62.9	12	µg/L	100		62.9	30-130	13.5	20	
3/4-Methylphenol	60.4	12	µg/L	100		60.4	30-130	13.0	20	
Naphthalene	45.8	6.0	µg/L	100		45.8	40-140	8.47	20	
2-Nitroaniline	77.6	12	µg/L	100		77.6	40-140	5.19	20	

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B341823 - SW-846 3510C
LCS Dup (B341823-BSD1)

Prepared: 05/31/23 Analyzed: 06/10/23

3-Nitroaniline	84.6	12	µg/L	100		84.6	40-140	5.94	20	
4-Nitroaniline	84.3	12	µg/L	100		84.3	40-140	1.75	20	
Nitrobenzene	66.7	12	µg/L	100		66.7	40-140	6.16	20	
2-Nitrophenol	61.8	12	µg/L	100		61.8	30-130	17.2	20	
4-Nitrophenol	47.9	12	µg/L	100		47.9	10-130	133 *	50	R-05 † ‡
N-Nitrosodiphenylamine/Diphenylamine	74.4	12	µg/L	100		74.4	40-140	11.2	20	
N-Nitrosodi-n-propylamine	69.1	12	µg/L	100		69.1	40-140	13.3	20	
Pentachlorophenol	70.1	12	µg/L	100		70.1	30-130	38.1	50	‡
Phenanthrene	74.2	6.0	µg/L	100		74.2	40-140	8.00	20	
Phenol	33.6	12	µg/L	100		33.6	20-130	10.1	20	†
Pyrene	77.6	6.0	µg/L	100		77.6	40-140	8.04	20	
1,2,4,5-Tetrachlorobenzene	44.1	12	µg/L	100		44.1	40-140	16.3	20	
2,4,5-Trichlorophenol	76.8	12	µg/L	100		76.8	30-130	5.03	20	
2,4,6-Trichlorophenol	73.0	12	µg/L	100		73.0	30-130	30.6	50	‡
Surrogate: 2-Fluorophenol	<i>211</i>		µg/L	400		52.9	15-110			
Surrogate: Phenol-d6	<i>152</i>		µg/L	400		38.0	15-110			
Surrogate: Nitrobenzene-d5	<i>146</i>		µg/L	200		73.2	30-130			
Surrogate: 2-Fluorobiphenyl	<i>138</i>		µg/L	200		69.0	30-130			
Surrogate: 2,4,6-Tribromophenol	<i>367</i>		µg/L	400		91.7	15-110			
Surrogate: p-Terphenyl-d14	<i>183</i>		µg/L	200		91.3	30-130			

Batch B342397 - SW-846 3546
Blank (B342397-BLK1)

Prepared: 06/06/23 Analyzed: 06/07/23

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzidine	ND	0.66	mg/Kg wet							V-05, V-35
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Benzoic Acid	ND	1.0	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							V-06
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342397 - SW-846 3546										
Blank (B342397-BLK1)				Prepared: 06/06/23 Analyzed: 06/07/23						
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine/Azobenzene	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							V-06
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
N-Nitrosodimethylamine	ND	0.34	mg/Kg wet							V-06
N-Nitrosodiphenylamine/Diphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	4.61		mg/Kg wet	6.67		69.2	30-130			
Surrogate: Phenol-d6	4.69		mg/Kg wet	6.67		70.4	30-130			
Surrogate: Nitrobenzene-d5	2.36		mg/Kg wet	3.33		70.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.40		mg/Kg wet	3.33		71.9	30-130			
Surrogate: 2,4,6-Tribromophenol	4.76		mg/Kg wet	6.67		71.4	30-130			
Surrogate: p-Terphenyl-d14	2.70		mg/Kg wet	3.33		81.2	30-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342397 - SW-846 3546										
LCS (B342397-BS1)				Prepared: 06/06/23 Analyzed: 06/07/23						
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140			
Acenaphthylene	1.18	0.17	mg/Kg wet	1.67		71.1	40-140			
Acetophenone	1.10	0.34	mg/Kg wet	1.67		66.0	40-140			
Aniline	0.890	0.34	mg/Kg wet	1.67		53.4	10-140			†
Anthracene	1.21	0.17	mg/Kg wet	1.67		72.9	40-140			
Benztidine	1.23	0.66	mg/Kg wet	1.67		73.9	40-140			V-05, V-35
Benzo(a)anthracene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140			
Benzo(a)pyrene	1.14	0.17	mg/Kg wet	1.67		68.1	40-140			
Benzo(b)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140			
Benzo(g,h,i)perylene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Benzo(k)fluoranthene	1.19	0.17	mg/Kg wet	1.67		71.2	40-140			
Benzoic Acid	0.985	1.0	mg/Kg wet	1.67		59.1	30-130			J
Bis(2-chloroethoxy)methane	1.14	0.34	mg/Kg wet	1.67		68.6	40-140			
Bis(2-chloroethyl)ether	1.22	0.34	mg/Kg wet	1.67		73.5	40-140			
Bis(2-chloroisopropyl)ether	1.51	0.34	mg/Kg wet	1.67		90.9	40-140			V-06
Bis(2-Ethylhexyl)phthalate	1.17	0.34	mg/Kg wet	1.67		70.4	40-140			
4-Bromophenylphenylether	1.12	0.34	mg/Kg wet	1.67		67.4	40-140			
Butylbenzylphthalate	1.24	0.34	mg/Kg wet	1.67		74.5	40-140			
Carbazole	1.19	0.17	mg/Kg wet	1.67		71.2	40-140			
4-Chloroaniline	0.762	0.66	mg/Kg wet	1.67		45.7	10-140			†
4-Chloro-3-methylphenol	1.06	0.66	mg/Kg wet	1.67		63.6	30-130			
2-Chloronaphthalene	0.950	0.34	mg/Kg wet	1.67		57.0	40-140			
2-Chlorophenol	1.03	0.34	mg/Kg wet	1.67		61.6	30-130			
4-Chlorophenylphenylether	1.09	0.34	mg/Kg wet	1.67		65.2	40-140			
Chrysene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140			
Dibenz(a,h)anthracene	1.08	0.17	mg/Kg wet	1.67		64.7	40-140			
Dibenzofuran	1.18	0.34	mg/Kg wet	1.67		70.5	40-140			
Di-n-butylphthalate	1.19	0.34	mg/Kg wet	1.67		71.2	40-140			
1,2-Dichlorobenzene	1.03	0.34	mg/Kg wet	1.67		61.9	40-140			
1,3-Dichlorobenzene	0.980	0.34	mg/Kg wet	1.67		58.8	40-140			
1,4-Dichlorobenzene	1.00	0.34	mg/Kg wet	1.67		60.0	40-140			
3,3-Dichlorobenzidine	0.933	0.17	mg/Kg wet	1.67		56.0	20-140			†
2,4-Dichlorophenol	1.01	0.34	mg/Kg wet	1.67		60.5	30-130			
Diethylphthalate	1.11	0.34	mg/Kg wet	1.67		66.6	40-140			
2,4-Dimethylphenol	0.927	0.34	mg/Kg wet	1.67		55.6	30-130			
Dimethylphthalate	1.14	0.34	mg/Kg wet	1.67		68.4	40-140			
4,6-Dinitro-2-methylphenol	1.09	0.34	mg/Kg wet	1.67		65.4	30-130			
2,4-Dinitrophenol	0.891	0.66	mg/Kg wet	1.67		53.5	30-130			
2,4-Dinitrotoluene	1.14	0.34	mg/Kg wet	1.67		68.4	40-140			
2,6-Dinitrotoluene	1.21	0.34	mg/Kg wet	1.67		72.7	40-140			
Di-n-octylphthalate	1.14	0.34	mg/Kg wet	1.67		68.2	40-140			
1,2-Diphenylhydrazine/Azobenzene	1.31	0.34	mg/Kg wet	1.67		78.8	40-140			
Fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.3	40-140			
Fluorene	1.15	0.17	mg/Kg wet	1.67		68.8	40-140			
Hexachlorobenzene	1.19	0.34	mg/Kg wet	1.67		71.3	40-140			
Hexachlorobutadiene	1.00	0.34	mg/Kg wet	1.67		60.2	40-140			
Hexachlorocyclopentadiene	0.775	0.34	mg/Kg wet	1.67		46.5	40-140			
Hexachloroethane	1.07	0.34	mg/Kg wet	1.67		64.1	40-140			
Indeno(1,2,3-cd)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Isophorone	1.20	0.34	mg/Kg wet	1.67		72.2	40-140			
1-Methylnaphthalene	1.06	0.17	mg/Kg wet	1.67		63.9	40-140			
2-Methylnaphthalene	1.05	0.17	mg/Kg wet	1.67		63.0	40-140			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342397 - SW-846 3546										
LCS (B342397-BS1)										
Prepared: 06/06/23 Analyzed: 06/07/23										
2-Methylphenol	1.15	0.34	mg/Kg wet	1.67		69.0	30-130			
3/4-Methylphenol	1.15	0.34	mg/Kg wet	1.67		69.1	30-130			
Naphthalene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140			
2-Nitroaniline	1.30	0.34	mg/Kg wet	1.67		78.3	40-140			V-06
3-Nitroaniline	0.991	0.34	mg/Kg wet	1.67		59.5	30-140			†
4-Nitroaniline	1.03	0.34	mg/Kg wet	1.67		61.9	40-140			
Nitrobenzene	1.16	0.34	mg/Kg wet	1.67		69.4	40-140			
2-Nitrophenol	1.02	0.34	mg/Kg wet	1.67		60.9	30-130			
4-Nitrophenol	1.12	0.66	mg/Kg wet	1.67		67.1	30-130			
N-Nitrosodimethylamine	1.25	0.34	mg/Kg wet	1.67		74.9	40-140			V-06
N-Nitrosodiphenylamine/Diphenylamine	1.26	0.34	mg/Kg wet	1.67		75.3	40-140			
N-Nitrosodi-n-propylamine	1.18	0.34	mg/Kg wet	1.67		71.0	40-140			
Pentachloronitrobenzene	1.13	0.34	mg/Kg wet	1.67		67.9	40-140			
Pentachlorophenol	0.809	0.34	mg/Kg wet	1.67		48.5	30-130			
Phenanthrene	1.19	0.17	mg/Kg wet	1.67		71.3	40-140			
Phenol	1.06	0.34	mg/Kg wet	1.67		63.7	30-130			
Pyrene	1.29	0.17	mg/Kg wet	1.67		77.5	40-140			
Pyridine	0.717	0.34	mg/Kg wet	1.67		43.0	30-140			†
1,2,4,5-Tetrachlorobenzene	1.07	0.34	mg/Kg wet	1.67		64.1	40-140			
1,2,4-Trichlorobenzene	1.02	0.34	mg/Kg wet	1.67		61.4	40-140			
2,4,5-Trichlorophenol	1.19	0.34	mg/Kg wet	1.67		71.4	30-130			
2,4,6-Trichlorophenol	1.07	0.34	mg/Kg wet	1.67		64.0	30-130			
Surrogate: 2-Fluorophenol	4.67		mg/Kg wet	6.67		70.0	30-130			
Surrogate: Phenol-d6	4.68		mg/Kg wet	6.67		70.2	30-130			
Surrogate: Nitrobenzene-d5	2.36		mg/Kg wet	3.33		70.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.46		mg/Kg wet	3.33		73.9	30-130			
Surrogate: 2,4,6-Tribromophenol	4.72		mg/Kg wet	6.67		70.8	30-130			
Surrogate: p-Terphenyl-d14	2.60		mg/Kg wet	3.33		78.0	30-130			
LCS Dup (B342397-BSD1)										
Prepared: 06/06/23 Analyzed: 06/07/23										
Acenaphthene	1.08	0.17	mg/Kg wet	1.67		64.7	40-140	0.893	30	
Acenaphthylene	1.19	0.17	mg/Kg wet	1.67		71.2	40-140	0.225	30	
Acetophenone	1.09	0.34	mg/Kg wet	1.67		65.5	40-140	0.791	30	
Aniline	1.06	0.34	mg/Kg wet	1.67		63.8	10-140	17.7	50	† ‡
Anthracene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140	1.74	30	
Benzidine	1.64	0.66	mg/Kg wet	1.67		98.3	40-140	28.3	30	V-05, V-35
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.67		72.3	40-140	2.24	30	
Benzo(a)pyrene	1.18	0.17	mg/Kg wet	1.67		70.9	40-140	4.00	30	
Benzo(b)fluoranthene	1.20	0.17	mg/Kg wet	1.67		72.1	40-140	3.88	30	
Benzo(g,h,i)perylene	1.17	0.17	mg/Kg wet	1.67		70.1	40-140	6.63	30	
Benzo(k)fluoranthene	1.23	0.17	mg/Kg wet	1.67		73.6	40-140	3.40	30	
Benzoic Acid	1.01	1.0	mg/Kg wet	1.67		60.8	30-130	2.80	50	‡
Bis(2-chloroethoxy)methane	1.15	0.34	mg/Kg wet	1.67		69.1	40-140	0.697	30	
Bis(2-chloroethyl)ether	1.21	0.34	mg/Kg wet	1.67		72.5	40-140	1.32	30	
Bis(2-chloroisopropyl)ether	1.53	0.34	mg/Kg wet	1.67		92.1	40-140	1.31	30	V-06
Bis(2-Ethylhexyl)phthalate	1.25	0.34	mg/Kg wet	1.67		74.9	40-140	6.16	30	
4-Bromophenylphenylether	1.14	0.34	mg/Kg wet	1.67		68.3	40-140	1.27	30	
Butylbenzylphthalate	1.32	0.34	mg/Kg wet	1.67		79.4	40-140	6.32	30	
Carbazole	1.20	0.17	mg/Kg wet	1.67		71.7	40-140	0.784	30	
4-Chloroaniline	0.921	0.66	mg/Kg wet	1.67		55.3	10-140	18.9	30	†
4-Chloro-3-methylphenol	1.06	0.66	mg/Kg wet	1.67		63.5	30-130	0.0944	30	
2-Chloronaphthalene	1.02	0.34	mg/Kg wet	1.67		61.5	40-140	7.56	30	

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342397 - SW-846 3546										
LCS Dup (B342397-BSD1)										
Prepared: 06/06/23 Analyzed: 06/07/23										
2-Chlorophenol	1.02	0.34	mg/Kg wet	1.67		61.0	30-130	0.881	30	
4-Chlorophenylphenylether	1.11	0.34	mg/Kg wet	1.67		66.6	40-140	2.09	30	
Chrysene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	1.93	30	
Dibenz(a,h)anthracene	1.14	0.17	mg/Kg wet	1.67		68.4	40-140	5.56	30	
Dibenzofuran	1.18	0.34	mg/Kg wet	1.67		71.1	40-140	0.763	30	
Di-n-butylphthalate	1.22	0.34	mg/Kg wet	1.67		73.1	40-140	2.69	30	
1,2-Dichlorobenzene	1.01	0.34	mg/Kg wet	1.67		60.9	40-140	1.76	30	
1,3-Dichlorobenzene	0.947	0.34	mg/Kg wet	1.67		56.8	40-140	3.42	30	
1,4-Dichlorobenzene	0.962	0.34	mg/Kg wet	1.67		57.7	40-140	3.91	30	
3,3-Dichlorobenzidine	1.10	0.17	mg/Kg wet	1.67		65.8	20-140	16.1	50	† ‡
2,4-Dichlorophenol	0.994	0.34	mg/Kg wet	1.67		59.6	30-130	1.40	30	
Diethylphthalate	1.13	0.34	mg/Kg wet	1.67		67.7	40-140	1.64	30	
2,4-Dimethylphenol	0.925	0.34	mg/Kg wet	1.67		55.5	30-130	0.216	30	
Dimethylphthalate	1.16	0.34	mg/Kg wet	1.67		69.8	40-140	2.05	30	
4,6-Dinitro-2-methylphenol	1.11	0.34	mg/Kg wet	1.67		66.3	30-130	1.40	30	
2,4-Dinitrophenol	0.914	0.66	mg/Kg wet	1.67		54.8	30-130	2.55	30	
2,4-Dinitrotoluene	1.13	0.34	mg/Kg wet	1.67		67.9	40-140	0.704	30	
2,6-Dinitrotoluene	1.20	0.34	mg/Kg wet	1.67		72.2	40-140	0.663	30	
Di-n-octylphthalate	1.23	0.34	mg/Kg wet	1.67		73.9	40-140	8.00	30	
1,2-Diphenylhydrazine/Azobenzene	1.36	0.34	mg/Kg wet	1.67		81.4	40-140	3.17	30	
Fluoranthene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140	1.83	30	
Fluorene	1.15	0.17	mg/Kg wet	1.67		69.3	40-140	0.637	30	
Hexachlorobenzene	1.15	0.34	mg/Kg wet	1.67		69.0	40-140	3.31	30	
Hexachlorobutadiene	0.951	0.34	mg/Kg wet	1.67		57.1	40-140	5.42	30	
Hexachlorocyclopentadiene	0.750	0.34	mg/Kg wet	1.67		45.0	40-140	3.28	30	
Hexachloroethane	1.06	0.34	mg/Kg wet	1.67		63.8	40-140	0.406	30	
Indeno(1,2,3-cd)pyrene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140	6.24	30	
Isophorone	1.22	0.34	mg/Kg wet	1.67		73.3	40-140	1.48	30	
1-Methylnaphthalene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140	0.723	30	
2-Methylnaphthalene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	0.759	30	
2-Methylphenol	1.14	0.34	mg/Kg wet	1.67		68.1	30-130	1.31	30	
3/4-Methylphenol	1.17	0.34	mg/Kg wet	1.67		70.3	30-130	1.72	30	
Naphthalene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	1.93	30	
2-Nitroaniline	1.35	0.34	mg/Kg wet	1.67		80.8	40-140	3.24	30	V-06
3-Nitroaniline	1.07	0.34	mg/Kg wet	1.67		64.2	30-140	7.57	30	†
4-Nitroaniline	1.10	0.34	mg/Kg wet	1.67		65.8	40-140	6.04	30	
Nitrobenzene	1.14	0.34	mg/Kg wet	1.67		68.3	40-140	1.66	30	
2-Nitrophenol	0.996	0.34	mg/Kg wet	1.67		59.8	30-130	1.86	30	
4-Nitrophenol	1.06	0.66	mg/Kg wet	1.67		63.9	30-130	4.86	50	‡
N-Nitrosodimethylamine	1.25	0.34	mg/Kg wet	1.67		75.2	40-140	0.453	30	V-06
N-Nitrosodiphenylamine/Diphenylamine	1.26	0.34	mg/Kg wet	1.67		75.9	40-140	0.741	30	
N-Nitrosodi-n-propylamine	1.22	0.34	mg/Kg wet	1.67		73.5	40-140	3.46	30	
Pentachloronitrobenzene	1.11	0.34	mg/Kg wet	1.67		66.6	40-140	2.05	30	
Pentachlorophenol	0.786	0.34	mg/Kg wet	1.67		47.1	30-130	2.93	30	
Phenanthrene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140	1.53	30	
Phenol	1.05	0.34	mg/Kg wet	1.67		63.2	30-130	0.788	30	
Pyrene	1.32	0.17	mg/Kg wet	1.67		79.4	40-140	2.40	30	
Pyridine	0.674	0.34	mg/Kg wet	1.67		40.5	30-140	6.18	30	†
1,2,4,5-Tetrachlorobenzene	1.04	0.34	mg/Kg wet	1.67		62.5	40-140	2.53	30	
1,2,4-Trichlorobenzene	0.986	0.34	mg/Kg wet	1.67		59.1	40-140	3.68	30	
2,4,5-Trichlorophenol	1.17	0.34	mg/Kg wet	1.67		70.3	30-130	1.61	30	
2,4,6-Trichlorophenol	1.06	0.34	mg/Kg wet	1.67		63.3	30-130	1.07	30	

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342397 - SW-846 3546
LCS Dup (B342397-BSD1)

Prepared: 06/06/23 Analyzed: 06/07/23

Surrogate: 2-Fluorophenol	4.57		mg/Kg wet	6.67		68.6	30-130			
Surrogate: Phenol-d6	4.66		mg/Kg wet	6.67		70.0	30-130			
Surrogate: Nitrobenzene-d5	2.38		mg/Kg wet	3.33		71.5	30-130			
Surrogate: 2-Fluorobiphenyl	2.42		mg/Kg wet	3.33		72.6	30-130			
Surrogate: 2,4,6-Tribromophenol	4.83		mg/Kg wet	6.67		72.4	30-130			
Surrogate: p-Terphenyl-d14	2.70		mg/Kg wet	3.33		81.1	30-130			

Matrix Spike (B342397-MS1)
Source: 23E3538-05

Prepared: 06/06/23 Analyzed: 06/07/23

Acenaphthene	1.15	0.21	mg/Kg dry	2.08	ND	55.4	40-140			
Acenaphthylene	1.29	0.21	mg/Kg dry	2.08	ND	62.0	40-140			
Acetophenone	1.17	0.43	mg/Kg dry	2.08	ND	56.0	40-140			
Aniline	0.868	0.43	mg/Kg dry	2.08	ND	41.6	40-140			
Anthracene	1.31	0.21	mg/Kg dry	2.08	ND	63.0	40-140			
Benzidine	0.00125	0.83	mg/Kg dry	2.08	ND	0.0600 *	40-140			J, MS-07A, V-05, V-35
Benzo(a)anthracene	1.29	0.21	mg/Kg dry	2.08	ND	62.0	40-140			
Benzo(a)pyrene	1.24	0.21	mg/Kg dry	2.08	ND	59.6	40-140			
Benzo(b)fluoranthene	1.40	0.21	mg/Kg dry	2.08	ND	67.2	40-140			
Benzo(g,h,i)perylene	1.26	0.21	mg/Kg dry	2.08	ND	60.5	40-140			
Benzo(k)fluoranthene	1.42	0.21	mg/Kg dry	2.08	ND	68.4	40-140			
Benzoic Acid	1.18	1.3	mg/Kg dry	2.08	ND	56.6	40-140			J
Bis(2-chloroethoxy)methane	1.22	0.43	mg/Kg dry	2.08	ND	58.8	40-140			
Bis(2-chloroethyl)ether	1.22	0.43	mg/Kg dry	2.08	ND	58.3	40-140			
Bis(2-chloroisopropyl)ether	1.48	0.43	mg/Kg dry	2.08	ND	71.0	40-140			
Bis(2-Ethylhexyl)phthalate	1.35	0.43	mg/Kg dry	2.08	ND	64.6	40-140			
4-Bromophenylphenylether	1.24	0.43	mg/Kg dry	2.08	ND	59.4	40-140			
Butylbenzylphthalate	1.39	0.43	mg/Kg dry	2.08	ND	66.8	40-140			
Carbazole	1.28	0.21	mg/Kg dry	2.08	ND	61.2	40-140			
4-Chloroaniline	0.921	0.83	mg/Kg dry	2.08	ND	44.2	40-140			
4-Chloro-3-methylphenol	1.19	0.83	mg/Kg dry	2.08	ND	57.1	30-130			
2-Chloronaphthalene	0.999	0.43	mg/Kg dry	2.08	ND	47.9	40-140			
2-Chlorophenol	1.09	0.43	mg/Kg dry	2.08	ND	52.4	30-130			
4-Chlorophenylphenylether	1.20	0.43	mg/Kg dry	2.08	ND	57.5	40-140			
Chrysene	1.25	0.21	mg/Kg dry	2.08	ND	60.0	40-140			
Dibenz(a,h)anthracene	1.19	0.21	mg/Kg dry	2.08	ND	57.0	40-140			
Dibenzofuran	1.30	0.43	mg/Kg dry	2.08	ND	62.3	40-140			
Di-n-butylphthalate	1.27	0.43	mg/Kg dry	2.08	ND	61.2	40-140			
1,2-Dichlorobenzene	0.948	0.43	mg/Kg dry	2.08	ND	45.5	40-140			
1,3-Dichlorobenzene	0.864	0.43	mg/Kg dry	2.08	ND	41.5	40-140			
1,4-Dichlorobenzene	0.909	0.43	mg/Kg dry	2.08	ND	43.6	40-140			
3,3-Dichlorobenzidine	0.894	0.21	mg/Kg dry	2.08	ND	42.9	40-140			
2,4-Dichlorophenol	1.13	0.43	mg/Kg dry	2.08	ND	54.3	30-130			
Diethylphthalate	1.25	0.43	mg/Kg dry	2.08	ND	59.9	40-140			
2,4-Dimethylphenol	1.03	0.43	mg/Kg dry	2.08	ND	49.4	30-130			
Dimethylphthalate	1.28	0.43	mg/Kg dry	2.08	ND	61.5	40-140			
4,6-Dinitro-2-methylphenol	1.17	0.43	mg/Kg dry	2.08	ND	56.0	30-130			
2,4-Dinitrophenol	0.999	0.83	mg/Kg dry	2.08	ND	47.9	30-130			
2,4-Dinitrotoluene	1.24	0.43	mg/Kg dry	2.08	ND	59.5	40-140			
2,6-Dinitrotoluene	1.35	0.43	mg/Kg dry	2.08	ND	64.9	40-140			
Di-n-octylphthalate	1.67	0.43	mg/Kg dry	2.08	ND	80.2	40-140			
1,2-Diphenylhydrazine/Azobenzene	1.44	0.43	mg/Kg dry	2.08	ND	69.3	40-140			
Fluoranthene	1.29	0.21	mg/Kg dry	2.08	ND	61.7	40-140			
Fluorene	1.26	0.21	mg/Kg dry	2.08	ND	60.3	40-140			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342397 - SW-846 3546

Matrix Spike (B342397-MS1)		Source: 23E3538-05		Prepared: 06/06/23 Analyzed: 06/07/23						
Hexachlorobenzene	1.25	0.43	mg/Kg dry	2.08	ND	59.8	40-140			
Hexachlorobutadiene	0.919	0.43	mg/Kg dry	2.08	ND	44.1	40-140			
Hexachlorocyclopentadiene	0.0550	0.43	mg/Kg dry	2.08	ND	2.64 *	30-130			J, MS-07A
Hexachloroethane	0.930	0.43	mg/Kg dry	2.08	ND	44.6	40-140			
Indeno(1,2,3-cd)pyrene	1.22	0.21	mg/Kg dry	2.08	ND	58.3	40-140			
Isophorone	1.31	0.43	mg/Kg dry	2.08	ND	63.0	40-140			
1-Methylnaphthalene	1.15	0.21	mg/Kg dry	2.08	ND	55.0	40-140			
2-Methylnaphthalene	1.12	0.21	mg/Kg dry	2.08	ND	53.7	40-140			
2-Methylphenol	1.23	0.43	mg/Kg dry	2.08	ND	59.0	30-130			
3/4-Methylphenol	1.29	0.43	mg/Kg dry	2.08	ND	61.9	30-130			
Naphthalene	1.10	0.21	mg/Kg dry	2.08	ND	52.7	40-140			
2-Nitroaniline	1.43	0.43	mg/Kg dry	2.08	ND	68.8	40-140			
3-Nitroaniline	1.19	0.43	mg/Kg dry	2.08	ND	56.9	40-140			
4-Nitroaniline	1.09	0.43	mg/Kg dry	2.08	ND	52.1	40-140			
Nitrobenzene	1.18	0.43	mg/Kg dry	2.08	ND	56.6	40-140			
2-Nitrophenol	1.10	0.43	mg/Kg dry	2.08	ND	52.8	30-130			
4-Nitrophenol	1.28	0.83	mg/Kg dry	2.08	ND	61.3	30-130			
N-Nitrosodimethylamine	1.24	0.43	mg/Kg dry	2.08	ND	59.6	40-140			
N-Nitrosodiphenylamine/Diphenylamine	1.37	0.43	mg/Kg dry	2.08	ND	65.6	40-140			
N-Nitrosodi-n-propylamine	1.27	0.43	mg/Kg dry	2.08	ND	60.8	40-140			
Pentachloronitrobenzene	1.21	0.43	mg/Kg dry	2.08	ND	58.2	40-140			
Pentachlorophenol	0.864	0.43	mg/Kg dry	2.08	ND	41.5	30-130			
Phenanthrene	1.31	0.21	mg/Kg dry	2.08	ND	62.7	40-140			
Phenol	1.23	0.43	mg/Kg dry	2.08	ND	59.0	30-130			
Pyrene	1.46	0.21	mg/Kg dry	2.08	ND	69.9	40-140			
Pyridine	0.655	0.43	mg/Kg dry	2.08	ND	31.4 *	40-140			MS-07A
1,2,4,5-Tetrachlorobenzene	1.11	0.43	mg/Kg dry	2.08	ND	53.3	40-140			
1,2,4-Trichlorobenzene	0.981	0.43	mg/Kg dry	2.08	ND	47.1	40-140			
2,4,5-Trichlorophenol	1.32	0.43	mg/Kg dry	2.08	ND	63.4	30-130			
2,4,6-Trichlorophenol	1.18	0.43	mg/Kg dry	2.08	ND	56.8	30-130			
Surrogate: 2-Fluorophenol	5.11		mg/Kg dry	8.34		61.3	30-130			
Surrogate: Phenol-d6	5.30		mg/Kg dry	8.34		63.6	30-130			
Surrogate: Nitrobenzene-d5	2.47		mg/Kg dry	4.17		59.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.66		mg/Kg dry	4.17		63.7	30-130			
Surrogate: 2,4,6-Tribromophenol	5.45		mg/Kg dry	8.34		65.4	30-130			
Surrogate: p-Terphenyl-d14	3.04		mg/Kg dry	4.17		73.0	30-130			

Matrix Spike Dup (B342397-MSD1)		Source: 23E3538-05		Prepared: 06/06/23 Analyzed: 06/07/23						
Acenaphthene	1.34	0.21	mg/Kg dry	2.08	ND	64.1	40-140	14.6	30	
Acenaphthylene	1.45	0.21	mg/Kg dry	2.08	ND	69.6	40-140	11.5	30	
Acetophenone	1.28	0.43	mg/Kg dry	2.08	ND	61.4	40-140	9.17	30	
Aniline	0.789	0.43	mg/Kg dry	2.08	ND	37.9 *	40-140	9.46	30	MS-22
Anthracene	1.48	0.21	mg/Kg dry	2.08	ND	71.1	40-140	12.1	30	
Benzidine	0.00292	0.83	mg/Kg dry	2.08	ND	0.140 *	40-140		30	J, MS-07A, V-35
Benzo(a)anthracene	1.45	0.21	mg/Kg dry	2.08	ND	69.6	40-140	11.6	30	
Benzo(a)pyrene	1.36	0.21	mg/Kg dry	2.08	ND	65.4	40-140	9.24	30	
Benzo(b)fluoranthene	1.47	0.21	mg/Kg dry	2.08	ND	70.7	40-140	5.16	30	
Benzo(g,h,i)perylene	1.45	0.21	mg/Kg dry	2.08	ND	69.7	40-140	14.2	30	
Benzo(k)fluoranthene	1.53	0.21	mg/Kg dry	2.08	ND	73.5	40-140	7.19	30	
Benzoic Acid	1.33	1.3	mg/Kg dry	2.08	ND	63.6	40-140	11.6	30	
Bis(2-chloroethoxy)methane	1.40	0.43	mg/Kg dry	2.08	ND	67.4	40-140	13.7	30	
Bis(2-chloroethyl)ether	1.31	0.43	mg/Kg dry	2.08	ND	62.8	40-140	7.36	30	

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342397 - SW-846 3546										
Matrix Spike Dup (B342397-MSD1)	Source: 23E3538-05			Prepared: 06/06/23 Analyzed: 06/07/23						
Bis(2-chloroisopropyl)ether	1.65	0.43	mg/Kg dry	2.08	ND	79.1	40-140	10.8	30	
Bis(2-Ethylhexyl)phthalate	1.53	0.43	mg/Kg dry	2.08	ND	73.2	40-140	12.5	30	
4-Bromophenylphenylether	1.43	0.43	mg/Kg dry	2.08	ND	68.5	40-140	14.2	30	
Butylbenzylphthalate	1.62	0.43	mg/Kg dry	2.08	ND	77.8	40-140	15.2	30	
Carbazole	1.41	0.21	mg/Kg dry	2.08	ND	67.9	40-140	10.3	30	
4-Chloroaniline	0.936	0.83	mg/Kg dry	2.08	ND	44.9	40-140	1.57	30	
4-Chloro-3-methylphenol	1.36	0.83	mg/Kg dry	2.08	ND	65.3	30-130	13.5	30	
2-Chloronaphthalene	1.23	0.43	mg/Kg dry	2.08	ND	58.9	40-140	20.4	30	
2-Chlorophenol	1.23	0.43	mg/Kg dry	2.08	ND	59.1	30-130	12.1	30	
4-Chlorophenylphenylether	1.38	0.43	mg/Kg dry	2.08	ND	66.0	40-140	13.7	30	
Chrysene	1.39	0.21	mg/Kg dry	2.08	ND	66.6	40-140	10.4	30	
Dibenz(a,h)anthracene	1.38	0.21	mg/Kg dry	2.08	ND	66.4	40-140	15.3	30	
Dibenzofuran	1.46	0.43	mg/Kg dry	2.08	ND	70.1	40-140	11.8	30	
Di-n-butylphthalate	1.43	0.43	mg/Kg dry	2.08	ND	68.7	40-140	11.6	30	
1,2-Dichlorobenzene	1.09	0.43	mg/Kg dry	2.08	ND	52.4	40-140	14.1	30	
1,3-Dichlorobenzene	1.02	0.43	mg/Kg dry	2.08	ND	48.9	40-140	16.4	30	
1,4-Dichlorobenzene	1.05	0.43	mg/Kg dry	2.08	ND	50.5	40-140	14.6	30	
3,3-Dichlorobenzidine	1.03	0.21	mg/Kg dry	2.08	ND	49.4	40-140	14.1	30	
2,4-Dichlorophenol	1.29	0.43	mg/Kg dry	2.08	ND	61.9	30-130	13.2	30	
Diethylphthalate	1.37	0.43	mg/Kg dry	2.08	ND	65.5	40-140	9.03	30	
2,4-Dimethylphenol	1.17	0.43	mg/Kg dry	2.08	ND	56.2	30-130	12.8	30	
Dimethylphthalate	1.42	0.43	mg/Kg dry	2.08	ND	68.3	40-140	10.5	30	
4,6-Dinitro-2-methylphenol	1.33	0.43	mg/Kg dry	2.08	ND	63.8	30-130	13.1	30	
2,4-Dinitrophenol	1.09	0.83	mg/Kg dry	2.08	ND	52.2	30-130	8.63	30	
2,4-Dinitrotoluene	1.39	0.43	mg/Kg dry	2.08	ND	66.7	40-140	11.4	30	
2,6-Dinitrotoluene	1.48	0.43	mg/Kg dry	2.08	ND	70.9	40-140	8.87	30	
Di-n-octylphthalate	1.84	0.43	mg/Kg dry	2.08	ND	88.2	40-140	9.51	30	
1,2-Diphenylhydrazine/Azobenzene	1.64	0.43	mg/Kg dry	2.08	ND	78.8	40-140	12.8	30	
Fluoranthene	1.40	0.21	mg/Kg dry	2.08	ND	67.3	40-140	8.71	30	
Fluorene	1.41	0.21	mg/Kg dry	2.08	ND	67.5	40-140	11.2	30	
Hexachlorobenzene	1.44	0.43	mg/Kg dry	2.08	ND	69.0	40-140	14.2	30	
Hexachlorobutadiene	1.12	0.43	mg/Kg dry	2.08	ND	53.7	40-140	19.6	30	
Hexachlorocyclopentadiene	0.0783	0.43	mg/Kg dry	2.08	ND	3.76 *	30-130		30	J, MS-07A
Hexachloroethane	1.06	0.43	mg/Kg dry	2.08	ND	50.8	40-140	12.9	30	
Indeno(1,2,3-cd)pyrene	1.39	0.21	mg/Kg dry	2.08	ND	66.9	40-140	13.7	30	
Isophorone	1.46	0.43	mg/Kg dry	2.08	ND	70.2	40-140	10.9	30	
1-Methylnaphthalene	1.32	0.21	mg/Kg dry	2.08	ND	63.6	40-140	14.5	30	
2-Methylnaphthalene	1.32	0.21	mg/Kg dry	2.08	ND	63.3	40-140	16.4	30	
2-Methylphenol	1.42	0.43	mg/Kg dry	2.08	ND	68.2	30-130	14.4	30	
3/4-Methylphenol	1.50	0.43	mg/Kg dry	2.08	ND	72.2	30-130	15.3	30	
Naphthalene	1.26	0.21	mg/Kg dry	2.08	ND	60.5	40-140	13.8	30	
2-Nitroaniline	1.58	0.43	mg/Kg dry	2.08	ND	75.8	40-140	9.79	30	
3-Nitroaniline	1.26	0.43	mg/Kg dry	2.08	ND	60.4	40-140	5.90	30	
4-Nitroaniline	1.20	0.43	mg/Kg dry	2.08	ND	57.4	40-140	9.79	30	
Nitrobenzene	1.28	0.43	mg/Kg dry	2.08	ND	61.6	40-140	8.56	30	
2-Nitrophenol	1.23	0.43	mg/Kg dry	2.08	ND	58.9	30-130	11.1	30	
4-Nitrophenol	1.32	0.83	mg/Kg dry	2.08	ND	63.4	30-130	3.30	30	
N-Nitrosodimethylamine	1.31	0.43	mg/Kg dry	2.08	ND	63.1	40-140	5.74	30	
N-Nitrosodiphenylamine/Diphenylamine	1.54	0.43	mg/Kg dry	2.08	ND	74.0	40-140	12.1	30	
N-Nitrosodi-n-propylamine	1.38	0.43	mg/Kg dry	2.08	ND	66.4	40-140	8.90	30	
Pentachloronitrobenzene	1.43	0.43	mg/Kg dry	2.08	ND	68.7	40-140	16.5	30	
Pentachlorophenol	1.01	0.43	mg/Kg dry	2.08	ND	48.5	30-130	15.7	30	

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342397 - SW-846 3546
Matrix Spike Dup (B342397-MSD1)
Source: 23E3538-05

Prepared: 06/06/23 Analyzed: 06/07/23

Phenanthrene	1.46	0.21	mg/Kg dry	2.08	ND	70.2	40-140	11.3	30	
Phenol	1.38	0.43	mg/Kg dry	2.08	ND	66.1	30-130	11.3	30	
Pyrene	1.69	0.21	mg/Kg dry	2.08	ND	81.0	40-140	14.7	30	
Pyridine	0.738	0.43	mg/Kg dry	2.08	ND	35.4 *	40-140	12.0	30	MS-07A
1,2,4,5-Tetrachlorobenzene	1.25	0.43	mg/Kg dry	2.08	ND	59.9	40-140	11.7	30	
1,2,4-Trichlorobenzene	1.16	0.43	mg/Kg dry	2.08	ND	55.5	40-140	16.4	30	
2,4,5-Trichlorophenol	1.46	0.43	mg/Kg dry	2.08	ND	70.0	30-130	9.84	30	
2,4,6-Trichlorophenol	1.33	0.43	mg/Kg dry	2.08	ND	63.7	30-130	11.5	30	
Surrogate: 2-Fluorophenol	5.57		mg/Kg dry	8.34		66.9	30-130			
Surrogate: Phenol-d6	5.95		mg/Kg dry	8.34		71.4	30-130			
Surrogate: Nitrobenzene-d5	2.72		mg/Kg dry	4.17		65.2	30-130			
Surrogate: 2-Fluorobiphenyl	3.06		mg/Kg dry	4.17		73.4	30-130			
Surrogate: 2,4,6-Tribromophenol	6.18		mg/Kg dry	8.34		74.1	30-130			
Surrogate: p-Terphenyl-d14	3.51		mg/Kg dry	4.17		84.3	30-130			

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QUALITY CONTROL
1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341567 - SW-846 3546										
Blank (B341567-BLK1)				Prepared: 05/26/23 Analyzed: 06/02/23						
1,4-Dioxane	ND	0.050	mg/Kg wet							
Surrogate: 1,4-Dioxane-d8	0.293		mg/Kg wet	0.500		58.7	15-110			
LCS (B341567-BS1)				Prepared: 05/26/23 Analyzed: 06/02/23						
1,4-Dioxane	0.486	0.050	mg/Kg wet	0.500		97.2	40-140			
Surrogate: 1,4-Dioxane-d8	0.339		mg/Kg wet	0.500		67.8	15-110			
LCS Dup (B341567-BSD1)				Prepared: 05/26/23 Analyzed: 06/02/23						
1,4-Dioxane	0.517	0.050	mg/Kg wet	0.500		103	40-140	6.12	30	
Surrogate: 1,4-Dioxane-d8	0.311		mg/Kg wet	0.500		62.1	15-110			
Matrix Spike (B341567-MS2)				Source: 23E3538-05		Prepared: 05/26/23 Analyzed: 06/02/23				
1,4-Dioxane	0.658	0.063	mg/Kg dry	0.625	ND	105	40-140			
Surrogate: 1,4-Dioxane-d8	0.319		mg/Kg dry	0.625		51.0	15-110			
Matrix Spike Dup (B341567-MSD2)				Source: 23E3538-05		Prepared: 05/26/23 Analyzed: 06/09/23				
1,4-Dioxane	0.667	0.063	mg/Kg dry	0.625	ND	107	40-140	1.36	20	
Surrogate: 1,4-Dioxane-d8	0.261		mg/Kg dry	0.625		41.7	15-110			
Batch B341711 - SW-846 3510C										
Blank (B341711-BLK1)				Prepared: 05/30/23 Analyzed: 06/02/23						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	2.72		µg/L	10.0		27.2	15-110			
LCS (B341711-BS1)				Prepared: 05/30/23 Analyzed: 06/02/23						
1,4-Dioxane	10.6	0.20	µg/L	10.0		106	40-140			
Surrogate: 1,4-Dioxane-d8	3.27		µg/L	10.0		32.7	15-110			
LCS Dup (B341711-BSD1)				Prepared: 05/30/23 Analyzed: 06/02/23						
1,4-Dioxane	11.2	0.20	µg/L	10.0		112	40-140	5.44	30	
Surrogate: 1,4-Dioxane-d8	3.04		µg/L	10.0		30.4	15-110			
Batch B341817 - SW-846 3510C										
Blank (B341817-BLK1)				Prepared: 05/31/23 Analyzed: 06/09/23						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	2.85		µg/L	10.0		28.5	15-110			
LCS (B341817-BS1)				Prepared: 05/31/23 Analyzed: 06/13/23						
1,4-Dioxane	9.65	0.20	µg/L	10.0		96.5	40-140			
Surrogate: 1,4-Dioxane-d8	3.67		µg/L	10.0		36.7	15-110			

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QUALITY CONTROL
1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B341817 - SW-846 3510C
LCS Dup (B341817-BSD1)

Prepared: 05/31/23 Analyzed: 06/09/23

1,4-Dioxane	11.0	0.20	µg/L	10.0		110	40-140	13.3	30	
Surrogate: 1,4-Dioxane-d8	3.10		µg/L	10.0		31.0	15-110			

Matrix Spike (B341817-MS1)
Source: 23E3538-04

Prepared: 05/31/23 Analyzed: 06/09/23

1,4-Dioxane	10.5	0.19	µg/L	9.62	ND	110	40-140			
Surrogate: 1,4-Dioxane-d8	2.79		µg/L	9.62		29.0	15-110			

Matrix Spike Dup (B341817-MSD1)
Source: 23E3538-04

Prepared: 05/31/23 Analyzed: 06/09/23

1,4-Dioxane	10.4	0.19	µg/L	9.62	ND	108	40-140	1.18	20	
Surrogate: 1,4-Dioxane-d8	3.05		µg/L	9.62		31.8	15-110			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341714 - SW-846 3510C										
Blank (B341714-BLK1)										
Prepared: 05/30/23 Analyzed: 06/08/23										
alpha-Chlordane	ND	0.050	µg/L							
alpha-Chlordane [2C]	ND	0.050	µg/L							
gamma-Chlordane	ND	0.050	µg/L							
gamma-Chlordane [2C]	ND	0.050	µg/L							
Alachlor	ND	0.20	µg/L							
Alachlor [2C]	ND	0.20	µg/L							
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
Chlordane	ND	0.20	µg/L							
Chlordane [2C]	ND	0.20	µg/L							
4,4'-DDD	ND	0.040	µg/L							
4,4'-DDD [2C]	ND	0.040	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.040	µg/L							
4,4'-DDT [2C]	ND	0.040	µg/L							
Dieldrin	ND	0.0020	µg/L							
Dieldrin [2C]	ND	0.0020	µg/L							
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Endrin Aldehyde	ND	0.080	µg/L							
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							
Endrin Ketone [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Hexachlorobenzene	ND	0.050	µg/L							
Hexachlorobenzene [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	1.83		µg/L	4.00		45.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.83		µg/L	4.00		45.7	30-150			
Surrogate: Tetrachloro-m-xylene	2.68		µg/L	4.00		67.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.54		µg/L	4.00		63.5	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341714 - SW-846 3510C										
LCS (B341714-BS1)										
Prepared: 05/30/23 Analyzed: 06/09/23										
alpha-Chlordane	2.1	0.050	µg/L	2.00		106	0-200			
alpha-Chlordane [2C]	2.1	0.050	µg/L	2.00		106	0-200			
gamma-Chlordane	2.1	0.050	µg/L	2.00		106	0-200			
gamma-Chlordane [2C]	2.1	0.050	µg/L	2.00		106	0-200			
Alachlor	1.8	0.20	µg/L	2.00		91.6	40-140			
Alachlor [2C]	1.8	0.20	µg/L	2.00		88.2	40-140			
Aldrin	1.6	0.050	µg/L	2.00		77.6	40-140			
Aldrin [2C]	1.5	0.050	µg/L	2.00		74.3	40-140			
alpha-BHC	2.3	0.050	µg/L	2.00		114	40-140			
alpha-BHC [2C]	2.1	0.050	µg/L	2.00		107	40-140			
beta-BHC	2.1	0.050	µg/L	2.00		103	40-140			
beta-BHC [2C]	2.0	0.050	µg/L	2.00		99.3	40-140			
delta-BHC	2.0	0.050	µg/L	2.00		97.5	40-140			
delta-BHC [2C]	1.9	0.050	µg/L	2.00		93.4	40-140			
gamma-BHC (Lindane)	2.2	0.030	µg/L	2.00		112	40-140			
gamma-BHC (Lindane) [2C]	2.1	0.030	µg/L	2.00		107	40-140			
4,4'-DDD	2.4	0.040	µg/L	2.00		119	40-140			
4,4'-DDD [2C]	2.3	0.040	µg/L	2.00		116	40-140			
4,4'-DDE	2.2	0.040	µg/L	2.00		112	40-140			
4,4'-DDE [2C]	2.2	0.040	µg/L	2.00		111	40-140			
4,4'-DDT	2.3	0.040	µg/L	2.00		117	40-140			
4,4'-DDT [2C]	2.3	0.040	µg/L	2.00		113	40-140			
Dieldrin	2.2	0.0020	µg/L	2.00		110	40-140			
Dieldrin [2C]	2.2	0.0020	µg/L	2.00		108	40-140			
Endosulfan I	2.1	0.050	µg/L	2.00		103	40-140			
Endosulfan I [2C]	2.0	0.050	µg/L	2.00		99.7	40-140			
Endosulfan II	2.0	0.080	µg/L	2.00		100	40-140			
Endosulfan II [2C]	1.9	0.080	µg/L	2.00		97.3	40-140			
Endosulfan Sulfate	2.0	0.080	µg/L	2.00		98.3	40-140			
Endosulfan Sulfate [2C]	1.9	0.080	µg/L	2.00		95.0	40-140			
Endrin	2.2	0.080	µg/L	2.00		110	40-140			
Endrin [2C]	2.1	0.080	µg/L	2.00		106	40-140			
Endrin Aldehyde	2.1	0.080	µg/L	2.00		105	40-140			
Endrin Aldehyde [2C]	2.0	0.080	µg/L	2.00		100	40-140			
Endrin Ketone	2.0	0.080	µg/L	2.00		101	40-140			
Endrin Ketone [2C]	1.9	0.080	µg/L	2.00		96.6	40-140			
Heptachlor	1.8	0.050	µg/L	2.00		91.3	40-140			
Heptachlor [2C]	1.7	0.050	µg/L	2.00		85.8	40-140			
Heptachlor Epoxide	2.1	0.050	µg/L	2.00		106	40-140			
Heptachlor Epoxide [2C]	2.0	0.050	µg/L	2.00		101	40-140			
Hexachlorobenzene	1.8	0.050	µg/L	2.00		88.0	40-140			
Hexachlorobenzene [2C]	1.6	0.050	µg/L	2.00		82.3	40-140			
Methoxychlor	2.1	0.50	µg/L	2.00		104	40-140			
Methoxychlor [2C]	2.0	0.50	µg/L	2.00		100	40-140			
Surrogate: Decachlorobiphenyl	4.36		µg/L	4.00		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	4.38		µg/L	4.00		109	30-150			
Surrogate: Tetrachloro-m-xylene	2.93		µg/L	4.00		73.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.80		µg/L	4.00		69.9	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341714 - SW-846 3510C										
LCS Dup (B341714-BSD1)					Prepared: 05/30/23 Analyzed: 06/08/23					
alpha-Chlordane	2.0	0.050	µg/L	2.00		102	0-200	3.90		
alpha-Chlordane [2C]	2.1	0.050	µg/L	2.00		104	0-200	1.66		
gamma-Chlordane	2.1	0.050	µg/L	2.00		104	0-200	1.85		
gamma-Chlordane [2C]	2.1	0.050	µg/L	2.00		106	0-200	0.174		
Alachlor	1.8	0.20	µg/L	2.00		87.8	40-140	4.20	20	
Alachlor [2C]	1.7	0.20	µg/L	2.00		85.9	40-140	2.63	20	
Aldrin	1.7	0.050	µg/L	2.00		84.4	40-140	8.31	20	
Aldrin [2C]	1.7	0.050	µg/L	2.00		82.6	40-140	10.7	20	
alpha-BHC	2.3	0.050	µg/L	2.00		117	40-140	2.62	20	
alpha-BHC [2C]	2.3	0.050	µg/L	2.00		113	40-140	5.35	20	
beta-BHC	2.1	0.050	µg/L	2.00		104	40-140	0.354	20	
beta-BHC [2C]	1.9	0.050	µg/L	2.00		97.4	40-140	1.93	20	
delta-BHC	1.9	0.050	µg/L	2.00		96.8	40-140	0.769	20	
delta-BHC [2C]	1.9	0.050	µg/L	2.00		95.8	40-140	2.54	20	
gamma-BHC (Lindane)	2.3	0.030	µg/L	2.00		114	40-140	2.03	20	
gamma-BHC (Lindane) [2C]	2.2	0.030	µg/L	2.00		111	40-140	3.85	20	
4,4'-DDD	2.3	0.040	µg/L	2.00		113	40-140	4.79	20	
4,4'-DDD [2C]	2.2	0.040	µg/L	2.00		112	40-140	2.81	20	
4,4'-DDE	2.1	0.040	µg/L	2.00		107	40-140	4.68	20	
4,4'-DDE [2C]	2.1	0.040	µg/L	2.00		107	40-140	3.36	20	
4,4'-DDT	2.2	0.040	µg/L	2.00		110	40-140	6.24	20	
4,4'-DDT [2C]	2.1	0.040	µg/L	2.00		107	40-140	5.08	20	
Dieldrin	2.1	0.0020	µg/L	2.00		104	40-140	5.18	20	
Dieldrin [2C]	2.1	0.0020	µg/L	2.00		105	40-140	2.72	20	
Endosulfan I	2.0	0.050	µg/L	2.00		99.1	40-140	4.29	20	
Endosulfan I [2C]	2.0	0.050	µg/L	2.00		97.5	40-140	2.17	20	
Endosulfan II	1.9	0.080	µg/L	2.00		94.6	40-140	5.96	20	
Endosulfan II [2C]	1.9	0.080	µg/L	2.00		93.0	40-140	4.53	20	
Endosulfan Sulfate	1.8	0.080	µg/L	2.00		91.3	40-140	7.42	20	
Endosulfan Sulfate [2C]	1.8	0.080	µg/L	2.00		89.4	40-140	6.04	20	
Endrin	2.1	0.080	µg/L	2.00		104	40-140	5.96	20	
Endrin [2C]	2.0	0.080	µg/L	2.00		101	40-140	4.20	20	
Endrin Aldehyde	2.0	0.080	µg/L	2.00		98.5	40-140	6.09	20	
Endrin Aldehyde [2C]	1.9	0.080	µg/L	2.00		94.6	40-140	5.61	20	
Endrin Ketone	1.9	0.080	µg/L	2.00		94.8	40-140	6.57	20	
Endrin Ketone [2C]	1.8	0.080	µg/L	2.00		91.5	40-140	5.48	20	
Heptachlor	1.9	0.050	µg/L	2.00		94.6	40-140	3.58	20	
Heptachlor [2C]	1.8	0.050	µg/L	2.00		91.3	40-140	6.25	20	
Heptachlor Epoxide	2.1	0.050	µg/L	2.00		103	40-140	2.91	20	
Heptachlor Epoxide [2C]	2.0	0.050	µg/L	2.00		99.4	40-140	1.54	20	
Hexachlorobenzene	1.9	0.050	µg/L	2.00		95.1	40-140	7.67	20	
Hexachlorobenzene [2C]	1.8	0.050	µg/L	2.00		90.9	40-140	9.99	20	
Methoxychlor	1.9	0.50	µg/L	2.00		95.9	40-140	8.06	20	
Methoxychlor [2C]	1.8	0.50	µg/L	2.00		92.2	40-140	8.05	20	
Surrogate: Decachlorobiphenyl	1.55		µg/L	4.00		38.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.54		µg/L	4.00		38.5	30-150			
Surrogate: Tetrachloro-m-xylene	3.13		µg/L	4.00		78.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.01		µg/L	4.00		75.1	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341714 - SW-846 3510C										
Matrix Spike (B341714-MS2)	Source: 23E3538-04			Prepared: 05/30/23 Analyzed: 06/09/23						
Alachlor	1.4	0.18	µg/L	1.80	ND	77.5	30-150			
Alachlor [2C]	1.4	0.18	µg/L	1.80	ND	77.5	30-150			
Aldrin	1.3	0.045	µg/L	1.80	ND	69.6	30-150			
Aldrin [2C]	1.3	0.045	µg/L	1.80	ND	69.6	30-150			
alpha-BHC	1.5	0.045	µg/L	1.80	ND	84.7	30-150			
alpha-BHC [2C]	1.5	0.045	µg/L	1.80	ND	82.4	30-150			
beta-BHC	1.4	0.045	µg/L	1.80	ND	79.8	30-150			
beta-BHC [2C]	1.4	0.045	µg/L	1.80	ND	79.3	30-150			
delta-BHC	1.4	0.045	µg/L	1.80	ND	77.1	30-150			
delta-BHC [2C]	1.4	0.045	µg/L	1.80	ND	75.5	30-150			
gamma-BHC (Lindane)	1.5	0.027	µg/L	1.80	ND	84.0	30-150			
gamma-BHC (Lindane) [2C]	1.5	0.027	µg/L	1.80	ND	82.4	30-150			
4,4'-DDD	1.7	0.036	µg/L	1.80	ND	93.1	30-150			
4,4'-DDD [2C]	1.7	0.036	µg/L	1.80	ND	93.3	30-150			
4,4'-DDE	1.6	0.036	µg/L	1.80	ND	89.0	30-150			
4,4'-DDE [2C]	1.6	0.036	µg/L	1.80	ND	88.9	30-150			
4,4'-DDT	1.6	0.036	µg/L	1.80	ND	91.5	30-150			
4,4'-DDT [2C]	1.6	0.036	µg/L	1.80	ND	89.4	30-150			
Dieldrin	1.5	0.0018	µg/L	1.80	ND	84.7	30-150			
Dieldrin [2C]	1.6	0.0018	µg/L	1.80	ND	86.1	30-150			
Endosulfan I	1.4	0.045	µg/L	1.80	ND	79.8	30-150			
Endosulfan I [2C]	1.4	0.045	µg/L	1.80	ND	79.1	30-150			
Endosulfan II	1.4	0.072	µg/L	1.80	ND	79.2	30-150			
Endosulfan II [2C]	1.4	0.072	µg/L	1.80	ND	78.3	30-150			
Endosulfan Sulfate	1.4	0.072	µg/L	1.80	ND	80.4	30-150			
Endosulfan Sulfate [2C]	1.4	0.072	µg/L	1.80	ND	79.2	30-150			
Endrin	1.5	0.072	µg/L	1.80	ND	84.9	30-150			
Endrin [2C]	1.5	0.072	µg/L	1.80	ND	83.7	30-150			
Endrin Aldehyde	1.5	0.072	µg/L	1.80	ND	85.8	30-150			
Endrin Aldehyde [2C]	1.5	0.072	µg/L	1.80	ND	82.7	30-150			
Endrin Ketone	1.5	0.072	µg/L	1.80	ND	81.5	30-150			
Endrin Ketone [2C]	1.4	0.072	µg/L	1.80	ND	79.4	30-150			
Heptachlor	1.4	0.045	µg/L	1.80	ND	75.6	30-150			
Heptachlor [2C]	1.3	0.045	µg/L	1.80	ND	74.6	30-150			
Heptachlor Epoxide	1.5	0.045	µg/L	1.80	ND	81.8	30-150			
Heptachlor Epoxide [2C]	1.5	0.045	µg/L	1.80	ND	81.4	30-150			
Hexachlorobenzene	1.3	0.045	µg/L	1.80	ND	74.0	30-150			
Hexachlorobenzene [2C]	1.3	0.045	µg/L	1.80	ND	72.3	30-150			
Methoxychlor	1.5	0.45	µg/L	1.80	ND	82.8	30-150			
Methoxychlor [2C]	1.5	0.45	µg/L	1.80	ND	80.7	30-150			
Surrogate: Decachlorobiphenyl	2.82		µg/L	3.60		78.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.78		µg/L	3.60		77.2	30-150			
Surrogate: Tetrachloro-m-xylene	2.20		µg/L	3.60		61.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.17		µg/L	3.60		60.3	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B341714 - SW-846 3510C										
Matrix Spike Dup (B341714-MSD2)		Source: 23E3538-04		Prepared: 05/30/23 Analyzed: 06/09/23						
Alachlor	1.5	0.18	µg/L	1.79	ND	81.4	30-150	4.08	30	
Alachlor [2C]	1.4	0.18	µg/L	1.79	ND	80.2	30-150	2.51	30	
Aldrin	1.3	0.045	µg/L	1.79	ND	75.1	30-150	6.66	30	
Aldrin [2C]	1.3	0.045	µg/L	1.79	ND	73.6	30-150	4.72	30	
alpha-BHC	1.7	0.045	µg/L	1.79	ND	93.4	30-150	8.92	30	
alpha-BHC [2C]	1.6	0.045	µg/L	1.79	ND	89.4	30-150	7.18	30	
beta-BHC	1.5	0.045	µg/L	1.79	ND	85.9	30-150	6.45	30	
beta-BHC [2C]	1.5	0.045	µg/L	1.79	ND	84.7	30-150	5.71	30	
delta-BHC	1.5	0.045	µg/L	1.79	ND	81.5	30-150	4.67	30	
delta-BHC [2C]	1.4	0.045	µg/L	1.79	ND	79.3	30-150	4.08	30	
gamma-BHC (Lindane)	1.6	0.027	µg/L	1.79	ND	91.9	30-150	8.15	30	
gamma-BHC (Lindane) [2C]	1.6	0.027	µg/L	1.79	ND	88.4	30-150	6.11	30	
4,4'-DDD	1.7	0.036	µg/L	1.79	ND	94.8	30-150	0.859	30	
4,4'-DDD [2C]	1.7	0.036	µg/L	1.79	ND	95.0	30-150	0.945	30	
4,4'-DDE	1.6	0.036	µg/L	1.79	ND	91.2	30-150	1.60	30	
4,4'-DDE [2C]	1.6	0.036	µg/L	1.79	ND	91.0	30-150	1.52	30	
4,4'-DDT	1.7	0.036	µg/L	1.79	ND	92.4	30-150	0.128	30	
4,4'-DDT [2C]	1.6	0.036	µg/L	1.79	ND	90.3	30-150	0.0359	30	
Dieldrin	1.6	0.0018	µg/L	1.79	ND	88.6	30-150	3.55	30	
Dieldrin [2C]	1.6	0.0018	µg/L	1.79	ND	89.2	30-150	2.67	30	
Endosulfan I	1.5	0.045	µg/L	1.79	ND	83.7	30-150	3.87	30	
Endosulfan I [2C]	1.5	0.045	µg/L	1.79	ND	82.4	30-150	3.16	30	
Endosulfan II	1.5	0.071	µg/L	1.79	ND	81.2	30-150	1.66	30	
Endosulfan II [2C]	1.4	0.071	µg/L	1.79	ND	80.1	30-150	1.41	30	
Endosulfan Sulfate	1.5	0.071	µg/L	1.79	ND	81.8	30-150	0.883	30	
Endosulfan Sulfate [2C]	1.4	0.071	µg/L	1.79	ND	80.6	30-150	0.933	30	
Endrin	1.6	0.071	µg/L	1.79	ND	87.7	30-150	2.33	30	
Endrin [2C]	1.5	0.071	µg/L	1.79	ND	86.0	30-150	1.76	30	
Endrin Aldehyde	1.6	0.071	µg/L	1.79	ND	87.1	30-150	0.634	30	
Endrin Aldehyde [2C]	1.5	0.071	µg/L	1.79	ND	84.4	30-150	1.13	30	
Endrin Ketone	1.5	0.071	µg/L	1.79	ND	83.0	30-150	0.857	30	
Endrin Ketone [2C]	1.4	0.071	µg/L	1.79	ND	80.8	30-150	0.863	30	
Heptachlor	1.5	0.045	µg/L	1.79	ND	81.6	30-150	6.78	30	
Heptachlor [2C]	1.4	0.045	µg/L	1.79	ND	78.6	30-150	4.28	30	
Heptachlor Epoxide	1.5	0.045	µg/L	1.79	ND	86.5	30-150	4.78	30	
Heptachlor Epoxide [2C]	1.5	0.045	µg/L	1.79	ND	84.6	30-150	2.97	30	
Hexachlorobenzene	1.4	0.045	µg/L	1.79	ND	80.8	30-150	7.88	30	
Hexachlorobenzene [2C]	1.4	0.045	µg/L	1.79	ND	77.1	30-150	5.56	30	
Methoxychlor	1.5	0.45	µg/L	1.79	ND	83.5	30-150	0.0560	30	
Methoxychlor [2C]	1.5	0.45	µg/L	1.79	ND	81.6	30-150	0.247	30	
Surrogate: Decachlorobiphenyl	2.88		µg/L	3.57		80.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.86		µg/L	3.57		80.0	30-150			
Surrogate: Tetrachloro-m-xylene	2.34		µg/L	3.57		65.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.26		µg/L	3.57		63.4	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342469 - SW-846 3546
Blank (B342469-BLK1)

Prepared: 06/06/23 Analyzed: 06/10/23

alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.151		mg/Kg wet	0.200		75.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.154		mg/Kg wet	0.200		76.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.145		mg/Kg wet	0.200		72.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.139		mg/Kg wet	0.200		69.4	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342469 - SW-846 3546										
LCS (B342469-BS1)										
Prepared: 06/06/23 Analyzed: 06/10/23										
alpha-Chlordane	0.082	0.0050	mg/Kg wet	0.0990		82.6	40-140			
alpha-Chlordane [2C]	0.087	0.0050	mg/Kg wet	0.0990		87.4	40-140			
gamma-Chlordane	0.074	0.0050	mg/Kg wet	0.0990		74.3	40-140			
gamma-Chlordane [2C]	0.089	0.0050	mg/Kg wet	0.0990		89.8	40-140			
Alachlor	0.071	0.020	mg/Kg wet	0.0990		72.1	40-140			
Alachlor [2C]	0.072	0.020	mg/Kg wet	0.0990		73.0	40-140			
Aldrin	0.086	0.0050	mg/Kg wet	0.0990		87.3	40-140			
Aldrin [2C]	0.087	0.0050	mg/Kg wet	0.0990		87.9	40-140			
alpha-BHC	0.085	0.0050	mg/Kg wet	0.0990		86.0	40-140			V-06
alpha-BHC [2C]	0.080	0.0050	mg/Kg wet	0.0990		81.2	40-140			V-06
beta-BHC	0.075	0.0050	mg/Kg wet	0.0990		75.5	40-140			
beta-BHC [2C]	0.076	0.0050	mg/Kg wet	0.0990		77.1	40-140			
delta-BHC	0.063	0.0050	mg/Kg wet	0.0990		63.4	40-140			
delta-BHC [2C]	0.062	0.0050	mg/Kg wet	0.0990		62.9	40-140			
gamma-BHC (Lindane)	0.083	0.0020	mg/Kg wet	0.0990		83.8	40-140			
gamma-BHC (Lindane) [2C]	0.080	0.0020	mg/Kg wet	0.0990		80.7	40-140			
4,4'-DDD	0.088	0.0040	mg/Kg wet	0.0990		88.4	40-140			
4,4'-DDD [2C]	0.087	0.0040	mg/Kg wet	0.0990		88.3	40-140			
4,4'-DDE	0.086	0.0040	mg/Kg wet	0.0990		86.6	40-140			
4,4'-DDE [2C]	0.087	0.0040	mg/Kg wet	0.0990		88.3	40-140			
4,4'-DDT	0.088	0.0040	mg/Kg wet	0.0990		89.2	40-140			
4,4'-DDT [2C]	0.082	0.0040	mg/Kg wet	0.0990		82.9	40-140			
Dieldrin	0.084	0.0040	mg/Kg wet	0.0990		85.3	40-140			
Dieldrin [2C]	0.087	0.0040	mg/Kg wet	0.0990		87.5	40-140			
Endosulfan I	0.079	0.0050	mg/Kg wet	0.0990		79.5	40-140			
Endosulfan I [2C]	0.081	0.0050	mg/Kg wet	0.0990		81.8	40-140			
Endosulfan II	0.072	0.0079	mg/Kg wet	0.0990		72.6	40-140			
Endosulfan II [2C]	0.074	0.0079	mg/Kg wet	0.0990		74.7	40-140			
Endosulfan Sulfate	0.045	0.0079	mg/Kg wet	0.0990		45.9	40-140			
Endosulfan Sulfate [2C]	0.051	0.0079	mg/Kg wet	0.0990		51.8	40-140			
Endrin	0.080	0.0079	mg/Kg wet	0.0990		80.6	40-140			
Endrin [2C]	0.081	0.0079	mg/Kg wet	0.0990		81.6	40-140			
Endrin Aldehyde	0.076	0.0079	mg/Kg wet	0.0990		76.5	40-140			
Endrin Aldehyde [2C]	0.086	0.0079	mg/Kg wet	0.0990		86.4	40-140			
Endrin Ketone	0.068	0.0079	mg/Kg wet	0.0990		69.0	40-140			
Endrin Ketone [2C]	0.065	0.0079	mg/Kg wet	0.0990		65.8	40-140			
Heptachlor	0.091	0.0050	mg/Kg wet	0.0990		92.0	40-140			
Heptachlor [2C]	0.089	0.0050	mg/Kg wet	0.0990		90.0	40-140			
Heptachlor Epoxide	0.084	0.0050	mg/Kg wet	0.0990		84.6	40-140			
Heptachlor Epoxide [2C]	0.083	0.0050	mg/Kg wet	0.0990		83.5	40-140			
Hexachlorobenzene	0.082	0.0059	mg/Kg wet	0.0990		82.5	40-140			
Hexachlorobenzene [2C]	0.081	0.0059	mg/Kg wet	0.0990		81.6	40-140			
Methoxychlor	0.076	0.050	mg/Kg wet	0.0990		76.5	40-140			
Methoxychlor [2C]	0.081	0.050	mg/Kg wet	0.0990		81.7	40-140			
Surrogate: Decachlorobiphenyl	0.0958		mg/Kg wet	0.198		48.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.150		mg/Kg wet	0.198		76.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.152		mg/Kg wet	0.198		77.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.148		mg/Kg wet	0.198		74.9	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342469 - SW-846 3546										
LCS Dup (B342469-BSD1)					Prepared: 06/06/23 Analyzed: 06/10/23					
alpha-Chlordane	0.082	0.0050	mg/Kg wet	0.100		81.6	40-140	0.218	30	
alpha-Chlordane [2C]	0.087	0.0050	mg/Kg wet	0.100		86.7	40-140	0.138	30	
gamma-Chlordane	0.074	0.0050	mg/Kg wet	0.100		73.9	40-140	0.380	30	
gamma-Chlordane [2C]	0.089	0.0050	mg/Kg wet	0.100		88.6	40-140	0.409	30	
Alachlor	0.072	0.020	mg/Kg wet	0.100		71.7	40-140	0.399	30	
Alachlor [2C]	0.072	0.020	mg/Kg wet	0.100		71.8	40-140	0.599	30	
Aldrin	0.086	0.0050	mg/Kg wet	0.100		85.9	40-140	0.664	30	
Aldrin [2C]	0.086	0.0050	mg/Kg wet	0.100		86.4	40-140	0.717	30	
alpha-BHC	0.084	0.0050	mg/Kg wet	0.100		84.1	40-140	1.23	30	V-06
alpha-BHC [2C]	0.079	0.0050	mg/Kg wet	0.100		79.3	40-140	1.43	30	V-06
beta-BHC	0.076	0.0050	mg/Kg wet	0.100		75.9	40-140	1.51	30	
beta-BHC [2C]	0.077	0.0050	mg/Kg wet	0.100		76.9	40-140	0.668	30	
delta-BHC	0.074	0.0050	mg/Kg wet	0.100		74.0	40-140	16.4	30	
delta-BHC [2C]	0.073	0.0050	mg/Kg wet	0.100		73.5	40-140	16.5	30	
gamma-BHC (Lindane)	0.083	0.0020	mg/Kg wet	0.100		83.2	40-140	0.230	30	
gamma-BHC (Lindane) [2C]	0.079	0.0020	mg/Kg wet	0.100		78.6	40-140	1.62	30	
4,4'-DDD	0.089	0.0040	mg/Kg wet	0.100		89.0	40-140	1.65	30	
4,4'-DDD [2C]	0.089	0.0040	mg/Kg wet	0.100		88.9	40-140	1.76	30	
4,4'-DDE	0.087	0.0040	mg/Kg wet	0.100		86.9	40-140	1.38	30	
4,4'-DDE [2C]	0.088	0.0040	mg/Kg wet	0.100		87.8	40-140	0.373	30	
4,4'-DDT	0.089	0.0040	mg/Kg wet	0.100		89.0	40-140	0.726	30	
4,4'-DDT [2C]	0.084	0.0040	mg/Kg wet	0.100		84.0	40-140	2.34	30	
Dieldrin	0.084	0.0040	mg/Kg wet	0.100		84.4	40-140	0.150	30	
Dieldrin [2C]	0.087	0.0040	mg/Kg wet	0.100		87.1	40-140	0.504	30	
Endosulfan I	0.080	0.0050	mg/Kg wet	0.100		79.5	40-140	1.05	30	
Endosulfan I [2C]	0.082	0.0050	mg/Kg wet	0.100		82.0	40-140	1.14	30	
Endosulfan II	0.072	0.0080	mg/Kg wet	0.100		71.7	40-140	0.275	30	
Endosulfan II [2C]	0.075	0.0080	mg/Kg wet	0.100		74.5	40-140	0.771	30	
Endosulfan Sulfate	0.054	0.0080	mg/Kg wet	0.100		54.0	40-140	17.1	30	
Endosulfan Sulfate [2C]	0.063	0.0080	mg/Kg wet	0.100		63.5	40-140	21.2	30	
Endrin	0.080	0.0080	mg/Kg wet	0.100		80.4	40-140	0.760	30	
Endrin [2C]	0.080	0.0080	mg/Kg wet	0.100		80.0	40-140	1.05	30	
Endrin Aldehyde	0.088	0.0080	mg/Kg wet	0.100		88.0	40-140	15.0	30	
Endrin Aldehyde [2C]	0.094	0.0080	mg/Kg wet	0.100		93.9	40-140	9.33	30	
Endrin Ketone	0.068	0.0080	mg/Kg wet	0.100		68.4	40-140	0.0518	30	
Endrin Ketone [2C]	0.065	0.0080	mg/Kg wet	0.100		64.7	40-140	0.669	30	
Heptachlor	0.091	0.0050	mg/Kg wet	0.100		90.6	40-140	0.584	30	
Heptachlor [2C]	0.088	0.0050	mg/Kg wet	0.100		88.2	40-140	1.08	30	
Heptachlor Epoxide	0.083	0.0050	mg/Kg wet	0.100		83.1	40-140	0.755	30	
Heptachlor Epoxide [2C]	0.082	0.0050	mg/Kg wet	0.100		82.5	40-140	0.232	30	
Hexachlorobenzene	0.081	0.0060	mg/Kg wet	0.100		81.4	40-140	0.258	30	
Hexachlorobenzene [2C]	0.080	0.0060	mg/Kg wet	0.100		80.0	40-140	0.991	30	
Methoxychlor	0.074	0.050	mg/Kg wet	0.100		74.4	40-140	1.69	30	
Methoxychlor [2C]	0.078	0.050	mg/Kg wet	0.100		78.1	40-140	3.46	30	
Surrogate: Decachlorobiphenyl	0.0966		mg/Kg wet	0.200		48.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.150		mg/Kg wet	0.200		75.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.151		mg/Kg wet	0.200		75.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.145		mg/Kg wet	0.200		72.7	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342469 - SW-846 3546										
Matrix Spike (B342469-MS1)	Source: 23E3538-05			Prepared: 06/06/23 Analyzed: 06/11/23						
Alachlor	0.089	0.025	mg/Kg dry	0.125	ND	71.6	30-150			
Alachlor [2C]	0.087	0.025	mg/Kg dry	0.125	ND	69.6	30-150			
Aldrin	0.10	0.0063	mg/Kg dry	0.125	ND	83.3	30-150			
Aldrin [2C]	0.10	0.0063	mg/Kg dry	0.125	ND	81.1	30-150			
alpha-BHC	0.10	0.0063	mg/Kg dry	0.125	ND	83.5	30-150			V-06
alpha-BHC [2C]	0.096	0.0063	mg/Kg dry	0.125	ND	76.9	30-150			V-06
beta-BHC	0.090	0.0063	mg/Kg dry	0.125	ND	71.7	30-150			
beta-BHC [2C]	0.090	0.0063	mg/Kg dry	0.125	ND	72.1	30-150			
delta-BHC	0.079	0.0063	mg/Kg dry	0.125	ND	62.8	30-150			
delta-BHC [2C]	0.077	0.0063	mg/Kg dry	0.125	ND	61.4	30-150			
gamma-BHC (Lindane)	0.10	0.0025	mg/Kg dry	0.125	ND	80.1	30-150			
gamma-BHC (Lindane) [2C]	0.093	0.0025	mg/Kg dry	0.125	ND	74.0	30-150			
4,4'-DDD	0.11	0.0050	mg/Kg dry	0.125	ND	86.3	30-150			
4,4'-DDD [2C]	0.11	0.0050	mg/Kg dry	0.125	ND	84.3	30-150			
4,4'-DDE	0.10	0.0050	mg/Kg dry	0.125	ND	82.5	30-150			
4,4'-DDE [2C]	0.10	0.0050	mg/Kg dry	0.125	ND	82.7	30-150			
4,4'-DDT	0.097	0.0050	mg/Kg dry	0.125	ND	77.4	30-150			
4,4'-DDT [2C]	0.094	0.0050	mg/Kg dry	0.125	ND	75.0	30-150			
Dieldrin	0.10	0.0050	mg/Kg dry	0.125	ND	80.9	30-150			
Dieldrin [2C]	0.10	0.0050	mg/Kg dry	0.125	ND	82.1	30-150			
Endosulfan I	0.096	0.0063	mg/Kg dry	0.125	ND	77.1	30-150			
Endosulfan I [2C]	0.096	0.0063	mg/Kg dry	0.125	ND	76.8	30-150			
Endosulfan II	0.085	0.010	mg/Kg dry	0.125	ND	68.0	30-150			
Endosulfan II [2C]	0.081	0.010	mg/Kg dry	0.125	ND	65.1	30-150			
Endosulfan Sulfate	0.061	0.010	mg/Kg dry	0.125	ND	48.4	30-150			R-06
Endosulfan Sulfate [2C]	0.070	0.010	mg/Kg dry	0.125	ND	55.9	30-150			R-06
Endrin	0.094	0.010	mg/Kg dry	0.125	ND	75.4	30-150			
Endrin [2C]	0.092	0.010	mg/Kg dry	0.125	ND	73.6	30-150			
Endrin Aldehyde	0.11	0.010	mg/Kg dry	0.125	ND	84.7	30-150			
Endrin Aldehyde [2C]	0.12	0.010	mg/Kg dry	0.125	ND	95.5	30-150			
Endrin Ketone	0.084	0.010	mg/Kg dry	0.125	ND	66.8	30-150			
Endrin Ketone [2C]	0.078	0.010	mg/Kg dry	0.125	ND	62.8	30-150			
Heptachlor	0.11	0.0063	mg/Kg dry	0.125	ND	87.6	30-150			
Heptachlor [2C]	0.10	0.0063	mg/Kg dry	0.125	ND	83.2	30-150			
Heptachlor Epoxide	0.098	0.0063	mg/Kg dry	0.125	ND	78.6	30-150			
Heptachlor Epoxide [2C]	0.095	0.0063	mg/Kg dry	0.125	ND	76.3	30-150			
Hexachlorobenzene	0.10	0.0075	mg/Kg dry	0.125	ND	81.8	30-150			
Hexachlorobenzene [2C]	0.098	0.0075	mg/Kg dry	0.125	ND	78.4	30-150			
Methoxychlor	0.086	0.063	mg/Kg dry	0.125	ND	68.9	30-150			
Methoxychlor [2C]	0.090	0.063	mg/Kg dry	0.125	ND	72.1	30-150			
Surrogate: Decachlorobiphenyl	0.177		mg/Kg dry	0.250		70.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.183		mg/Kg dry	0.250		73.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.193		mg/Kg dry	0.250		77.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.184		mg/Kg dry	0.250		73.4	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342469 - SW-846 3546										
Matrix Spike Dup (B342469-MSD1)		Source: 23E3538-05		Prepared: 06/06/23 Analyzed: 06/11/23						
Alachlor	0.089	0.025	mg/Kg dry	0.125	ND	71.0	30-150	0.859	30	
Alachlor [2C]	0.085	0.025	mg/Kg dry	0.125	ND	67.8	30-150	2.61	30	
Aldrin	0.10	0.0063	mg/Kg dry	0.125	ND	80.7	30-150	3.17	30	
Aldrin [2C]	0.10	0.0063	mg/Kg dry	0.125	ND	80.0	30-150	1.38	30	
alpha-BHC	0.10	0.0063	mg/Kg dry	0.125	ND	83.0	30-150	0.525	30	V-06
alpha-BHC [2C]	0.099	0.0063	mg/Kg dry	0.125	ND	79.0	30-150	2.73	30	V-06
beta-BHC	0.086	0.0063	mg/Kg dry	0.125	ND	68.7	30-150	4.33	30	
beta-BHC [2C]	0.088	0.0063	mg/Kg dry	0.125	ND	70.4	30-150	2.35	30	
delta-BHC	0.061	0.0063	mg/Kg dry	0.125	ND	48.8	30-150	25.1	30	
delta-BHC [2C]	0.060	0.0063	mg/Kg dry	0.125	ND	47.7	30-150	25.2	30	
gamma-BHC (Lindane)	0.098	0.0025	mg/Kg dry	0.125	ND	78.3	30-150	2.32	30	
gamma-BHC (Lindane) [2C]	0.096	0.0025	mg/Kg dry	0.125	ND	76.5	30-150	3.26	30	
4,4'-DDD	0.11	0.0050	mg/Kg dry	0.125	ND	84.4	30-150	2.20	30	
4,4'-DDD [2C]	0.10	0.0050	mg/Kg dry	0.125	ND	81.6	30-150	3.34	30	
4,4'-DDE	0.10	0.0050	mg/Kg dry	0.125	ND	82.0	30-150	0.678	30	
4,4'-DDE [2C]	0.11	0.0050	mg/Kg dry	0.125	ND	84.0	30-150	1.56	30	
4,4'-DDT	0.088	0.0050	mg/Kg dry	0.125	ND	70.6	30-150	9.19	30	
4,4'-DDT [2C]	0.088	0.0050	mg/Kg dry	0.125	ND	70.5	30-150	6.29	30	
Dieldrin	0.10	0.0050	mg/Kg dry	0.125	ND	79.9	30-150	1.28	30	
Dieldrin [2C]	0.10	0.0050	mg/Kg dry	0.125	ND	80.3	30-150	2.24	30	
Endosulfan I	0.095	0.0063	mg/Kg dry	0.125	ND	75.7	30-150	1.77	30	
Endosulfan I [2C]	0.093	0.0063	mg/Kg dry	0.125	ND	74.6	30-150	2.89	30	
Endosulfan II	0.085	0.010	mg/Kg dry	0.125	ND	68.1	30-150	0.0941	30	
Endosulfan II [2C]	0.071	0.010	mg/Kg dry	0.125	ND	56.8	30-150	13.6	30	
Endosulfan Sulfate	0.042	0.010	mg/Kg dry	0.125	ND	33.6	30-150	36.2 *	30	MS-23
Endosulfan Sulfate [2C]	0.049	0.010	mg/Kg dry	0.125	ND	38.9	30-150	35.8 *	30	MS-23
Endrin	0.092	0.010	mg/Kg dry	0.125	ND	73.6	30-150	2.44	30	
Endrin [2C]	0.089	0.010	mg/Kg dry	0.125	ND	70.9	30-150	3.80	30	
Endrin Aldehyde	0.11	0.010	mg/Kg dry	0.125	ND	86.8	30-150	2.51	30	
Endrin Aldehyde [2C]	0.11	0.010	mg/Kg dry	0.125	ND	86.5	30-150	9.88	30	
Endrin Ketone	0.083	0.010	mg/Kg dry	0.125	ND	66.6	30-150	0.330	30	
Endrin Ketone [2C]	0.078	0.010	mg/Kg dry	0.125	ND	62.2	30-150	0.975	30	
Heptachlor	0.11	0.0063	mg/Kg dry	0.125	ND	84.5	30-150	3.61	30	
Heptachlor [2C]	0.10	0.0063	mg/Kg dry	0.125	ND	83.4	30-150	0.187	30	
Heptachlor Epoxide	0.097	0.0063	mg/Kg dry	0.125	ND	77.6	30-150	1.36	30	
Heptachlor Epoxide [2C]	0.096	0.0063	mg/Kg dry	0.125	ND	76.5	30-150	0.274	30	
Hexachlorobenzene	0.10	0.0075	mg/Kg dry	0.125	ND	81.0	30-150	0.980	30	
Hexachlorobenzene [2C]	0.10	0.0075	mg/Kg dry	0.125	ND	80.0	30-150	2.00	30	
Methoxychlor	0.090	0.063	mg/Kg dry	0.125	ND	71.6	30-150	3.80	30	
Methoxychlor [2C]	0.089	0.063	mg/Kg dry	0.125	ND	71.4	30-150	1.07	30	
Surrogate: Decachlorobiphenyl	0.174		mg/Kg dry	0.250		69.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.175		mg/Kg dry	0.250		69.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.194		mg/Kg dry	0.250		77.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.190		mg/Kg dry	0.250		75.9	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342941 - SW-846 3546										
Blank (B342941-BLK1)				Prepared: 06/12/23 Analyzed: 06/13/23						
alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							V-05
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.146		mg/Kg wet	0.200		72.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.142		mg/Kg wet	0.200		71.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.148		mg/Kg wet	0.200		73.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.147		mg/Kg wet	0.200		73.3	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342941 - SW-846 3546										
LCS (B342941-BS1)										
Prepared: 06/12/23 Analyzed: 06/13/23										
alpha-Chlordane	0.084	0.0050	mg/Kg wet	0.100		83.7	40-140			
alpha-Chlordane [2C]	0.087	0.0050	mg/Kg wet	0.100		86.6	40-140			
gamma-Chlordane	0.074	0.0050	mg/Kg wet	0.100		73.8	40-140			
gamma-Chlordane [2C]	0.089	0.0050	mg/Kg wet	0.100		88.8	40-140			
Alachlor	0.074	0.020	mg/Kg wet	0.100		74.2	40-140			
Alachlor [2C]	0.074	0.020	mg/Kg wet	0.100		73.5	40-140			
Aldrin	0.090	0.0050	mg/Kg wet	0.100		90.3	40-140			
Aldrin [2C]	0.088	0.0050	mg/Kg wet	0.100		88.1	40-140			
alpha-BHC	0.095	0.0050	mg/Kg wet	0.100		94.9	40-140			
alpha-BHC [2C]	0.091	0.0050	mg/Kg wet	0.100		91.3	40-140			
beta-BHC	0.080	0.0050	mg/Kg wet	0.100		79.6	40-140			
beta-BHC [2C]	0.081	0.0050	mg/Kg wet	0.100		81.0	40-140			
delta-BHC	0.084	0.0050	mg/Kg wet	0.100		83.7	40-140			
delta-BHC [2C]	0.081	0.0050	mg/Kg wet	0.100		81.5	40-140			
gamma-BHC (Lindane)	0.091	0.0020	mg/Kg wet	0.100		91.0	40-140			
gamma-BHC (Lindane) [2C]	0.087	0.0020	mg/Kg wet	0.100		87.2	40-140			
4,4'-DDD	0.092	0.0040	mg/Kg wet	0.100		91.9	40-140			
4,4'-DDD [2C]	0.091	0.0040	mg/Kg wet	0.100		90.6	40-140			
4,4'-DDE	0.088	0.0040	mg/Kg wet	0.100		87.9	40-140			
4,4'-DDE [2C]	0.088	0.0040	mg/Kg wet	0.100		87.7	40-140			
4,4'-DDT	0.085	0.0040	mg/Kg wet	0.100		85.2	40-140			
4,4'-DDT [2C]	0.077	0.0040	mg/Kg wet	0.100		76.8	40-140			
Dieldrin	0.086	0.0040	mg/Kg wet	0.100		86.4	40-140			
Dieldrin [2C]	0.087	0.0040	mg/Kg wet	0.100		87.3	40-140			
Endosulfan I	0.082	0.0050	mg/Kg wet	0.100		81.7	40-140			
Endosulfan I [2C]	0.082	0.0050	mg/Kg wet	0.100		82.1	40-140			
Endosulfan II	0.075	0.0080	mg/Kg wet	0.100		74.8	40-140			
Endosulfan II [2C]	0.078	0.0080	mg/Kg wet	0.100		78.1	40-140			
Endosulfan Sulfate	0.068	0.0080	mg/Kg wet	0.100		67.8	40-140			
Endosulfan Sulfate [2C]	0.078	0.0080	mg/Kg wet	0.100		78.1	40-140			
Endrin	0.083	0.0080	mg/Kg wet	0.100		82.6	40-140			
Endrin [2C]	0.079	0.0080	mg/Kg wet	0.100		79.2	40-140			
Endrin Aldehyde	0.072	0.0080	mg/Kg wet	0.100		71.8	40-140			
Endrin Aldehyde [2C]	0.083	0.0080	mg/Kg wet	0.100		83.0	40-140			
Endrin Ketone	0.078	0.0080	mg/Kg wet	0.100		77.9	40-140			
Endrin Ketone [2C]	0.073	0.0080	mg/Kg wet	0.100		72.7	40-140			
Heptachlor	0.094	0.0050	mg/Kg wet	0.100		93.6	40-140			
Heptachlor [2C]	0.089	0.0050	mg/Kg wet	0.100		88.8	40-140			
Heptachlor Epoxide	0.085	0.0050	mg/Kg wet	0.100		85.3	40-140			
Heptachlor Epoxide [2C]	0.084	0.0050	mg/Kg wet	0.100		83.6	40-140			
Hexachlorobenzene	0.091	0.0060	mg/Kg wet	0.100		91.1	40-140			
Hexachlorobenzene [2C]	0.092	0.0060	mg/Kg wet	0.100		91.7	40-140			
Methoxychlor	0.075	0.050	mg/Kg wet	0.100		75.5	40-140			
Methoxychlor [2C]	0.076	0.050	mg/Kg wet	0.100		76.4	40-140			V-05
Surrogate: Decachlorobiphenyl	0.119		mg/Kg wet	0.200		59.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.151		mg/Kg wet	0.200		75.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.176		mg/Kg wet	0.200		87.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.174		mg/Kg wet	0.200		87.0	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342941 - SW-846 3546										
LCS Dup (B342941-BSD1)					Prepared: 06/12/23 Analyzed: 06/13/23					
alpha-Chlordane	0.082	0.0050	mg/Kg wet	0.100		81.8	40-140	2.26	30	
alpha-Chlordane [2C]	0.085	0.0050	mg/Kg wet	0.100		85.4	40-140	1.42	30	
gamma-Chlordane	0.072	0.0050	mg/Kg wet	0.100		72.0	40-140	2.42	30	
gamma-Chlordane [2C]	0.088	0.0050	mg/Kg wet	0.100		87.6	40-140	1.35	30	
Alachlor	0.073	0.020	mg/Kg wet	0.100		72.8	40-140	1.83	30	
Alachlor [2C]	0.074	0.020	mg/Kg wet	0.100		74.4	40-140	1.15	30	
Aldrin	0.089	0.0050	mg/Kg wet	0.100		88.6	40-140	1.91	30	
Aldrin [2C]	0.088	0.0050	mg/Kg wet	0.100		88.1	40-140	0.0227	30	
alpha-BHC	0.093	0.0050	mg/Kg wet	0.100		93.2	40-140	1.74	30	
alpha-BHC [2C]	0.091	0.0050	mg/Kg wet	0.100		90.8	40-140	0.557	30	
beta-BHC	0.079	0.0050	mg/Kg wet	0.100		78.7	40-140	1.12	30	
beta-BHC [2C]	0.080	0.0050	mg/Kg wet	0.100		80.3	40-140	0.843	30	
delta-BHC	0.083	0.0050	mg/Kg wet	0.100		82.9	40-140	0.950	30	
delta-BHC [2C]	0.081	0.0050	mg/Kg wet	0.100		80.9	40-140	0.711	30	
gamma-BHC (Lindane)	0.090	0.0020	mg/Kg wet	0.100		89.8	40-140	1.27	30	
gamma-BHC (Lindane) [2C]	0.087	0.0020	mg/Kg wet	0.100		86.8	40-140	0.420	30	
4,4'-DDD	0.091	0.0040	mg/Kg wet	0.100		90.8	40-140	1.19	30	
4,4'-DDD [2C]	0.089	0.0040	mg/Kg wet	0.100		89.3	40-140	1.43	30	
4,4'-DDE	0.086	0.0040	mg/Kg wet	0.100		86.2	40-140	1.96	30	
4,4'-DDE [2C]	0.086	0.0040	mg/Kg wet	0.100		86.0	40-140	1.98	30	
4,4'-DDT	0.084	0.0040	mg/Kg wet	0.100		83.5	40-140	1.99	30	
4,4'-DDT [2C]	0.075	0.0040	mg/Kg wet	0.100		75.5	40-140	1.74	30	
Dieldrin	0.085	0.0040	mg/Kg wet	0.100		85.0	40-140	1.59	30	
Dieldrin [2C]	0.086	0.0040	mg/Kg wet	0.100		86.3	40-140	1.21	30	
Endosulfan I	0.081	0.0050	mg/Kg wet	0.100		80.6	40-140	1.44	30	
Endosulfan I [2C]	0.081	0.0050	mg/Kg wet	0.100		81.3	40-140	1.06	30	
Endosulfan II	0.073	0.0080	mg/Kg wet	0.100		73.1	40-140	2.35	30	
Endosulfan II [2C]	0.077	0.0080	mg/Kg wet	0.100		77.0	40-140	1.41	30	
Endosulfan Sulfate	0.067	0.0080	mg/Kg wet	0.100		66.9	40-140	1.23	30	
Endosulfan Sulfate [2C]	0.077	0.0080	mg/Kg wet	0.100		76.6	40-140	1.91	30	
Endrin	0.081	0.0080	mg/Kg wet	0.100		81.2	40-140	1.78	30	
Endrin [2C]	0.077	0.0080	mg/Kg wet	0.100		76.6	40-140	3.31	30	
Endrin Aldehyde	0.077	0.0080	mg/Kg wet	0.100		77.1	40-140	7.12	30	
Endrin Aldehyde [2C]	0.083	0.0080	mg/Kg wet	0.100		83.1	40-140	0.123	30	
Endrin Ketone	0.077	0.0080	mg/Kg wet	0.100		76.9	40-140	1.41	30	
Endrin Ketone [2C]	0.071	0.0080	mg/Kg wet	0.100		70.5	40-140	3.00	30	
Heptachlor	0.092	0.0050	mg/Kg wet	0.100		91.8	40-140	1.93	30	
Heptachlor [2C]	0.089	0.0050	mg/Kg wet	0.100		88.8	40-140	0.0135	30	
Heptachlor Epoxide	0.083	0.0050	mg/Kg wet	0.100		83.4	40-140	2.25	30	
Heptachlor Epoxide [2C]	0.083	0.0050	mg/Kg wet	0.100		82.8	40-140	0.943	30	
Hexachlorobenzene	0.090	0.0060	mg/Kg wet	0.100		90.1	40-140	1.07	30	
Hexachlorobenzene [2C]	0.091	0.0060	mg/Kg wet	0.100		91.1	40-140	0.672	30	
Methoxychlor	0.074	0.050	mg/Kg wet	0.100		74.1	40-140	1.85	30	
Methoxychlor [2C]	0.074	0.050	mg/Kg wet	0.100		73.9	40-140	3.25	30	V-05
Surrogate: Decachlorobiphenyl	0.107		mg/Kg wet	0.200		53.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.143		mg/Kg wet	0.200		71.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.168		mg/Kg wet	0.200		84.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.164		mg/Kg wet	0.200		82.2	30-150			

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QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342006 - Lloyd Kahn Method										
Blank (B342006-BLK1)				Prepared & Analyzed: 06/02/23						
Total Organic Carbon	75	100	mg/Kg							J
LCS (B342006-BS1)				Prepared & Analyzed: 06/02/23						
Total Organic Carbon	929	100	mg/Kg	750		124	67.3-125			
LCS Dup (B342006-BSD1)				Prepared & Analyzed: 06/02/23						
Total Organic Carbon	686	100	mg/Kg	750		91.5	67.3-125	30.1	*	26.4 R-05
Matrix Spike (B342006-MS1)				Prepared & Analyzed: 06/02/23						
Total Organic Carbon		Source: 23E3538-05								
Total Organic Carbon	2520	100	mg/Kg	750	2300	28.6	* 85-115			MS-07
Matrix Spike Dup (B342006-MSD1)				Prepared & Analyzed: 06/02/23						
Total Organic Carbon		Source: 23E3538-05								
Total Organic Carbon	2600	100	mg/Kg	750	2300	39.7	* 85-115	3.25	20	MS-07

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BREAKDOWN REPORT

Lab Sample ID: S088820-PEM1 **Analyzed:** 06/08/2023

Column Number:	1
Analyte	% Breakdown
4,4'-DDT [1]	2.41
Endrin [1]	2.84

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	2.26
Endrin [2]	2.23

BREAKDOWN REPORT

Lab Sample ID: S088820-PEM2 **Analyzed:** 06/08/2023

Column Number:	1
Analyte	% Breakdown
4,4'-DDT [1]	1.68
Endrin [1]	2.35

Column Number:	2
Analyte	% Breakdown
4,4'-DDT [2]	1.61
Endrin [2]	1.70

BREAKDOWN REPORT

Lab Sample ID: S088820-PEM3 **Analyzed:** 06/09/2023

Column Number:	1
Analyte	% Breakdown
4,4'-DDT [1]	2.42
Endrin [1]	5.66

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BREAKDOWN REPORT

Lab Sample ID: S088820-PEM3 **Analyzed:** 06/09/2023**Column Number:** 2

Analyte	% Breakdown
4,4'-DDT [2]	2.43
Endrin [2]	4.76

BREAKDOWN REPORT

Lab Sample ID: S088918-PEM1 **Analyzed:** 06/10/2023**Column Number:** 1

Analyte	% Breakdown
4,4'-DDT [1]	2.90
Endrin [1]	6.45

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.07
Endrin [2]	6.79

BREAKDOWN REPORT

Lab Sample ID: S088918-PEM2 **Analyzed:** 06/10/2023**Column Number:** 1

Analyte	% Breakdown
4,4'-DDT [1]	2.64
Endrin [1]	6.12

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	2.75
Endrin [2]	5.80

BREAKDOWN REPORT

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BREAKDOWN REPORT

Lab Sample ID: S088918-PEM3 **Analyzed:** 06/11/2023**Column Number:** 1

Analyte	% Breakdown
4,4'-DDT [1]	9.74
Endrin [1]	9.13

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	9.47
Endrin [2]	8.58

BREAKDOWN REPORT

Lab Sample ID: S089018-PEM1 **Analyzed:** 06/13/2023**Column Number:** 1

Analyte	% Breakdown
4,4'-DDT [1]	11.41
Endrin [1]	13.28

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	11.01
Endrin [2]	10.92

BREAKDOWN REPORT

Lab Sample ID: S089018-PEM2 **Analyzed:** 06/13/2023**Column Number:** 1

Analyte	% Breakdown
4,4'-DDT [1]	9.72
Endrin [1]	10.22

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BREAKDOWN REPORT

Lab Sample ID: S089018-PEM2 **Analyzed:** 06/13/2023

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	9.84
Endrin [2]	8.73

BREAKDOWN REPORT

Lab Sample ID: S089018-PEM3 **Analyzed:** 06/13/2023

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	8.45
Endrin [1]	12.20

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	8.51
Endrin [2]	9.60

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B341714-BS1 Date(s) Analyzed: 06/09/2023 06/09/2023
 Instrument ID (1): ECD2 Instrument ID (2): ECD2
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.417	7.390	7.450	2.4	
	2	7.297	7.268	7.328	2.3	4.3
4,4'-DDE	1	6.966	6.938	6.998	2.2	
	2	6.866	6.837	6.897	2.2	4.4
4,4'-DDT	1	7.632	7.605	7.665	2.3	
	2	7.538	7.508	7.568	2.3	0.0
Alachlor	1	6.391	6.362	6.422	1.8	
	2	6.044	6.015	6.075	1.8	0.0
Aldrin	1	6.294	6.266	6.326	1.6	
	2	6.108	6.078	6.138	1.5	6.5
alpha-BHC	1	5.561	5.532	5.592	2.3	
	2	5.401	5.371	5.431	2.1	9.1
alpha-Chlordane	1	6.913	6.885	6.945	2.1	
	2	6.737	6.708	6.768	2.1	0.0
beta-BHC	1	5.823	5.794	5.854	2.1	
	2	5.668	5.639	5.699	2.0	4.9
delta-BHC	1	5.943	5.915	5.975	2.0	
	2	5.854	5.825	5.885	1.9	5.1
Dieldrin	1	7.194	7.167	7.227	2.2	
	2	6.974	6.946	7.006	2.2	0.0
Endosulfan I	1	7.016	6.988	7.048	2.1	
	2	6.775	6.746	6.806	2.0	4.9
Endosulfan II	1	7.542	7.514	7.574	2.0	
	2	7.359	7.330	7.390	1.9	5.1
Endosulfan Sulfate	1	8.185	8.158	8.218	2.0	
	2	7.837	7.809	7.869	1.9	5.1
Endrin	1	7.370	7.343	7.403	2.2	
	2	7.197	7.168	7.228	2.1	4.7
Endrin Aldehyde	1	7.868	7.841	7.901	2.1	
	2	7.620	7.590	7.650	2.0	4.9
Endrin Ketone	1	8.370	8.342	8.402	2.0	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B341714-BS1 Date(s) Analyzed: 06/09/2023 06/09/2023
 Instrument ID (1): ECD2 Instrument ID (2): ECD2
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.215	8.186	8.246	1.9	5.1
gamma-BHC (Lindane)	1	5.767	5.739	5.799	2.2	
	2	5.616	5.587	5.647	2.1	4.7
gamma-Chlordane	1	6.815	6.788	6.848	2.1	
	2	6.632	6.603	6.663	2.1	0.0
Heptachlor	1	6.085	6.057	6.117	1.8	
	2	5.896	5.867	5.927	1.7	5.7
Heptachlor Epoxide	1	6.726	6.698	6.758	2.1	
	2	6.498	6.469	6.529	2.0	4.9
Hexachlorobenzene	1	5.450	5.422	5.482	1.8	
	2	5.315	5.285	5.345	1.6	11.8
Methoxychlor	1	8.006	7.978	8.038	2.1	
	2	8.073	8.044	8.104	2.0	4.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B341714-BSD1 Date(s) Analyzed: 06/08/2023 06/08/2023
 Instrument ID (1): ECD2 Instrument ID (2): ECD2
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.423	7.393	7.453	2.3	
	2	7.299	7.269	7.329	2.2	4.4
4,4'-DDE	1	6.971	6.941	7.001	2.1	
	2	6.867	6.837	6.897	2.1	4.7
4,4'-DDT	1	7.638	7.608	7.668	2.2	
	2	7.539	7.510	7.570	2.1	4.7
Alachlor	1	6.395	6.365	6.425	1.8	
	2	6.045	6.015	6.075	1.7	5.7
Aldrin	1	6.298	6.268	6.328	1.7	
	2	6.108	6.079	6.139	1.7	0.0
alpha-BHC	1	5.564	5.534	5.594	2.3	
	2	5.401	5.372	5.432	2.3	4.3
alpha-Chlordane	1	6.917	6.888	6.948	2.0	
	2	6.738	6.709	6.769	2.1	4.9
beta-BHC	1	5.826	5.796	5.856	2.1	
	2	5.669	5.639	5.699	1.9	10.0
delta-BHC	1	5.946	5.917	5.977	1.9	
	2	5.855	5.826	5.886	1.9	0.0
Dieldrin	1	7.199	7.169	7.229	2.1	
	2	6.975	6.946	7.006	2.1	0.0
Endosulfan I	1	7.020	6.991	7.051	2.0	
	2	6.776	6.746	6.806	2.0	0.0
Endosulfan II	1	7.547	7.517	7.577	1.9	
	2	7.360	7.330	7.390	1.9	0.0
Endosulfan Sulfate	1	8.191	8.161	8.221	1.8	
	2	7.838	7.809	7.869	1.8	0.0
Endrin	1	7.376	7.346	7.406	2.1	
	2	7.200	7.169	7.229	2.0	4.9
Endrin Aldehyde	1	7.874	7.844	7.904	2.0	
	2	7.620	7.591	7.651	1.9	5.1
Endrin Ketone	1	8.375	8.345	8.405	1.9	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B341714-BSD1 Date(s) Analyzed: 06/08/2023 06/08/2023
 Instrument ID (1): ECD2 Instrument ID (2): ECD2
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.216	8.187	8.247	1.8	5.4
gamma-BHC (Lindane)	1	5.770	5.741	5.801	2.3	
	2	5.617	5.588	5.648	2.2	4.4
gamma-Chlordane	1	6.819	6.790	6.850	2.1	
	2	6.633	6.603	6.663	2.1	0.0
Heptachlor	1	6.089	6.060	6.120	1.9	
	2	5.897	5.868	5.928	1.8	5.4
Heptachlor Epoxide	1	6.731	6.701	6.761	2.1	
	2	6.499	6.470	6.530	2.0	4.9
Hexachlorobenzene	1	5.453	5.424	5.484	1.9	
	2	5.315	5.286	5.346	1.8	5.4
Methoxychlor	1	8.011	7.981	8.041	1.9	
	2	8.074	8.045	8.105	1.8	5.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B341714-MS2 Date(s) Analyzed: 06/09/2023 06/09/2023
 Instrument ID (1): ECD2 Instrument ID (2): ECD2
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.418	7.391	7.451	1.7	
	2	7.297	7.269	7.329	1.7	0.0
4,4'-DDE	1	6.966	6.940	7.000	1.6	
	2	6.866	6.837	6.897	1.6	0.0
4,4'-DDT	1	7.633	7.607	7.667	1.6	
	2	7.538	7.510	7.570	1.6	6.1
Alachlor	1	6.391	6.364	6.424	1.4	
	2	6.044	6.015	6.075	1.4	0.0
Aldrin	1	6.294	6.267	6.327	1.3	
	2	6.108	6.079	6.139	1.3	0.0
alpha-BHC	1	5.562	5.533	5.593	1.5	
	2	5.401	5.371	5.431	1.5	0.0
beta-BHC	1	5.824	5.796	5.856	1.4	
	2	5.669	5.639	5.699	1.4	0.0
delta-BHC	1	5.943	5.916	5.976	1.4	
	2	5.855	5.825	5.885	1.4	0.0
Dieldrin	1	7.195	7.168	7.228	1.5	
	2	6.975	6.946	7.006	1.6	6.5
Endosulfan I	1	7.016	6.989	7.049	1.4	
	2	6.776	6.746	6.806	1.4	0.0
Endosulfan II	1	7.542	7.516	7.576	1.4	
	2	7.359	7.331	7.391	1.4	0.0
Endosulfan Sulfate	1	8.186	8.159	8.219	1.4	
	2	7.838	7.809	7.869	1.4	6.9
Endrin	1	7.371	7.345	7.405	1.5	
	2	7.198	7.170	7.230	1.5	0.0
Endrin Aldehyde	1	7.870	7.843	7.903	1.5	
	2	7.620	7.592	7.652	1.5	6.5
Endrin Ketone	1	8.371	8.344	8.404	1.5	
	2	8.215	8.187	8.247	1.4	6.9
gamma-BHC (Lindane)	1	5.768	5.740	5.800	1.5	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B341714-MS2 Date(s) Analyzed: 06/09/2023 06/09/2023
 Instrument ID (1): ECD2 Instrument ID (2): ECD2
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.617	5.587	5.647	1.5	0.0
Heptachlor	1	6.086	6.058	6.118	1.4	
	2	5.897	5.867	5.927	1.3	7.4
Heptachlor Epoxide	1	6.726	6.699	6.759	1.5	
	2	6.499	6.470	6.530	1.5	0.0
Hexachlorobenzene	1	5.452	5.423	5.483	1.3	
	2	5.315	5.286	5.346	1.3	0.0
Methoxychlor	1	8.006	7.979	8.039	1.5	
	2	8.073	8.045	8.105	1.5	0.0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B341714-MSD2 Date(s) Analyzed: 06/09/2023 06/09/2023
 Instrument ID (1): ECD2 Instrument ID (2): ECD2
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.418	7.391	7.451	1.7	
	2	7.298	7.269	7.329	1.7	0.0
4,4'-DDE	1	6.967	6.940	7.000	1.6	
	2	6.866	6.837	6.897	1.6	0.0
4,4'-DDT	1	7.634	7.607	7.667	1.7	
	2	7.538	7.510	7.570	1.6	6.1
Alachlor	1	6.391	6.364	6.424	1.5	
	2	6.045	6.015	6.075	1.4	6.9
Aldrin	1	6.295	6.267	6.327	1.3	
	2	6.108	6.079	6.139	1.3	0.0
alpha-BHC	1	5.561	5.533	5.593	1.7	
	2	5.401	5.371	5.431	1.6	6.1
beta-BHC	1	5.823	5.796	5.856	1.5	
	2	5.669	5.639	5.699	1.5	0.0
delta-BHC	1	5.943	5.916	5.976	1.5	
	2	5.855	5.825	5.885	1.4	6.9
Dieldrin	1	7.195	7.168	7.228	1.6	
	2	6.975	6.946	7.006	1.6	0.0
Endosulfan I	1	7.016	6.989	7.049	1.5	
	2	6.776	6.746	6.806	1.5	0.0
Endosulfan II	1	7.542	7.516	7.576	1.5	
	2	7.359	7.331	7.391	1.4	6.9
Endosulfan Sulfate	1	8.187	8.159	8.219	1.5	
	2	7.838	7.809	7.869	1.4	6.9
Endrin	1	7.372	7.345	7.405	1.6	
	2	7.199	7.170	7.230	1.5	6.5
Endrin Aldehyde	1	7.869	7.843	7.903	1.6	
	2	7.620	7.592	7.652	1.5	6.5
Endrin Ketone	1	8.371	8.344	8.404	1.5	
	2	8.215	8.187	8.247	1.4	6.9
gamma-BHC (Lindane)	1	5.767	5.740	5.800	1.6	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B341714-MSD2 Date(s) Analyzed: 06/09/2023 06/09/2023
 Instrument ID (1): ECD2 Instrument ID (2): ECD2
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.617	5.587	5.647	1.6	0.0
Heptachlor	1	6.086	6.058	6.118	1.5	
	2	5.897	5.867	5.927	1.4	6.9
Heptachlor Epoxide	1	6.726	6.699	6.759	1.5	
	2	6.499	6.470	6.530	1.5	6.5
Hexachlorobenzene	1	5.450	5.423	5.483	1.4	
	2	5.316	5.286	5.346	1.4	0.0
Methoxychlor	1	8.007	7.979	8.039	1.5	
	2	8.074	8.045	8.105	1.5	0.0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B342469-BS1 Date(s) Analyzed: 06/10/2023 06/10/2023
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.418	7.388	7.448	0.088	
	2	7.297	7.268	7.328	0.087	1.1
4,4'-DDE	1	6.968	6.937	6.997	0.086	
	2	6.866	6.837	6.897	0.087	1.2
4,4'-DDT	1	7.634	7.603	7.663	0.088	
	2	7.538	7.508	7.568	0.082	7.1
Alachlor	1	6.392	6.361	6.421	0.071	
	2	6.044	6.015	6.075	0.072	1.4
Aldrin	1	6.295	6.264	6.324	0.086	
	2	6.108	6.079	6.139	0.087	0.0
alpha-BHC	1	5.561	5.531	5.591	0.085	
	2	5.400	5.371	5.431	0.080	6.1
alpha-Chlordane	1	6.914	6.883	6.943	0.082	
	2	6.737	6.707	6.767	0.087	5.9
beta-BHC	1	5.824	5.793	5.853	0.075	
	2	5.668	5.638	5.698	0.076	1.3
delta-BHC	1	5.943	5.914	5.974	0.063	
	2	5.854	5.825	5.885	0.062	1.6
Dieldrin	1	7.195	7.165	7.225	0.084	
	2	6.974	6.945	7.005	0.087	2.3
Endosulfan I	1	7.016	6.987	7.047	0.079	
	2	6.775	6.746	6.806	0.081	2.5
Endosulfan II	1	7.542	7.512	7.572	0.072	
	2	7.359	7.329	7.389	0.074	2.7
Endosulfan Sulfate	1	8.186	8.156	8.216	0.045	
	2	7.838	7.808	7.868	0.051	10.3
Endrin	1	7.371	7.341	7.401	0.080	
	2	7.198	7.168	7.228	0.081	1.2
Endrin Aldehyde	1	7.869	7.839	7.899	0.076	
	2	7.620	7.589	7.649	0.086	12.3
Endrin Ketone	1	8.371	8.340	8.400	0.068	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B342469-BS1 Date(s) Analyzed: 06/10/2023 06/10/2023
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.215	8.185	8.245	0.065	4.5
gamma-BHC (Lindane)	1	5.768	5.738	5.798	0.083	
	2	5.616	5.587	5.647	0.080	3.7
gamma-Chlordane	1	6.816	6.786	6.846	0.074	
	2	6.632	6.602	6.662	0.089	18.4
Heptachlor	1	6.086	6.056	6.116	0.091	
	2	5.897	5.866	5.926	0.089	2.2
Heptachlor Epoxide	1	6.727	6.695	6.755	0.084	
	2	6.498	6.469	6.529	0.083	1.2
Hexachlorobenzene	1	5.451	5.421	5.481	0.082	
	2	5.315	5.285	5.345	0.081	1.2
Methoxychlor	1	8.007	7.976	8.036	0.076	
	2	8.073	8.044	8.104	0.081	6.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B342469-BSD1 Date(s) Analyzed: 06/10/2023 06/10/2023
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.417	7.388	7.448	0.089	
	2	7.298	7.268	7.328	0.089	0.0
4,4'-DDE	1	6.966	6.937	6.997	0.087	
	2	6.866	6.837	6.897	0.088	1.1
4,4'-DDT	1	7.632	7.603	7.663	0.089	
	2	7.538	7.508	7.568	0.084	5.8
Alachlor	1	6.391	6.361	6.421	0.072	
	2	6.045	6.015	6.075	0.072	0.0
Aldrin	1	6.294	6.264	6.324	0.086	
	2	6.108	6.079	6.139	0.086	0.0
alpha-BHC	1	5.561	5.531	5.591	0.084	
	2	5.401	5.371	5.431	0.079	6.1
alpha-Chlordane	1	6.913	6.883	6.943	0.082	
	2	6.737	6.707	6.767	0.087	5.9
beta-BHC	1	5.823	5.793	5.853	0.076	
	2	5.668	5.638	5.698	0.077	1.3
delta-BHC	1	5.943	5.914	5.974	0.074	
	2	5.855	5.825	5.885	0.073	1.4
Dieldrin	1	7.195	7.165	7.225	0.084	
	2	6.974	6.945	7.005	0.087	3.5
Endosulfan I	1	7.016	6.987	7.047	0.080	
	2	6.775	6.746	6.806	0.082	2.5
Endosulfan II	1	7.542	7.512	7.572	0.072	
	2	7.359	7.329	7.389	0.075	4.1
Endosulfan Sulfate	1	8.184	8.156	8.216	0.054	
	2	7.838	7.808	7.868	0.063	15.4
Endrin	1	7.370	7.341	7.401	0.080	
	2	7.198	7.168	7.228	0.080	0.0
Endrin Aldehyde	1	7.869	7.839	7.899	0.088	
	2	7.620	7.589	7.649	0.094	6.6
Endrin Ketone	1	8.369	8.340	8.400	0.068	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B342469-BSD1 Date(s) Analyzed: 06/10/2023 06/10/2023
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.215	8.185	8.245	0.065	4.5
gamma-BHC (Lindane)	1	5.767	5.738	5.798	0.083	
	2	5.616	5.587	5.647	0.079	4.9
gamma-Chlordane	1	6.816	6.786	6.846	0.074	
	2	6.632	6.602	6.662	0.089	18.4
Heptachlor	1	6.086	6.056	6.116	0.091	
	2	5.897	5.866	5.926	0.088	3.4
Heptachlor Epoxide	1	6.726	6.695	6.755	0.083	
	2	6.499	6.469	6.529	0.082	1.2
Hexachlorobenzene	1	5.450	5.421	5.481	0.081	
	2	5.315	5.285	5.345	0.080	1.2
Methoxychlor	1	8.006	7.976	8.036	0.074	
	2	8.073	8.044	8.104	0.078	5.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B342469-MS1 Date(s) Analyzed: 06/11/2023 06/11/2023
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.413	7.387	7.447	0.11	
	2	7.295	7.267	7.327	0.11	0.0
4,4'-DDE	1	6.963	6.936	6.996	0.10	
	2	6.864	6.836	6.896	0.10	0.0
4,4'-DDT	1	7.628	7.603	7.663	0.097	
	2	7.536	7.508	7.568	0.094	3.1
Alachlor	1	6.387	6.361	6.421	0.089	
	2	6.043	6.014	6.074	0.087	3.4
Aldrin	1	6.291	6.264	6.324	0.10	
	2	6.107	6.078	6.138	0.10	0.0
alpha-BHC	1	5.559	5.531	5.591	0.10	
	2	5.400	5.371	5.431	0.096	4.1
beta-BHC	1	5.821	5.793	5.853	0.090	
	2	5.668	5.638	5.698	0.090	0.0
delta-BHC	1	5.941	5.913	5.973	0.079	
	2	5.853	5.825	5.885	0.077	2.6
Dieldrin	1	7.190	7.164	7.224	0.10	
	2	6.973	6.944	7.004	0.10	0.0
Endosulfan I	1	7.012	6.986	7.046	0.096	
	2	6.773	6.744	6.804	0.096	0.0
Endosulfan II	1	7.537	7.512	7.572	0.085	
	2	7.357	7.329	7.389	0.081	4.8
Endosulfan Sulfate	1	8.180	8.155	8.215	0.061	
	2	7.835	7.808	7.868	0.070	13.7
Endrin	1	7.366	7.341	7.401	0.094	
	2	7.197	7.168	7.228	0.092	2.2
Endrin Aldehyde	1	7.863	7.837	7.897	0.11	
	2	7.616	7.589	7.649	0.12	8.7
Endrin Ketone	1	8.366	8.339	8.399	0.084	
	2	8.213	8.185	8.245	0.078	7.4
gamma-BHC (Lindane)	1	5.765	5.737	5.797	0.10	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B342469-MS1 Date(s) Analyzed: 06/11/2023 06/11/2023
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.615	5.586	5.646	0.093	7.3
Heptachlor	1	6.083	6.055	6.115	0.11	
	2	5.896	5.866	5.926	0.10	9.5
Heptachlor Epoxide	1	6.722	6.697	6.757	0.098	
	2	6.497	6.468	6.528	0.095	3.1
Hexachlorobenzene	1	5.449	5.420	5.480	0.10	
	2	5.315	5.285	5.345	0.098	2.0
Methoxychlor	1	8.002	7.976	8.036	0.086	
	2	8.072	8.043	8.103	0.090	4.6

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B342469-MSD1 Date(s) Analyzed: 06/11/2023 06/11/2023
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.414	7.387	7.447	0.11	
	2	7.296	7.267	7.327	0.10	9.5
4,4'-DDE	1	6.963	6.936	6.996	0.10	
	2	6.864	6.836	6.896	0.11	9.5
4,4'-DDT	1	7.628	7.603	7.663	0.088	
	2	7.536	7.508	7.568	0.088	0.0
Alachlor	1	6.388	6.361	6.421	0.089	
	2	6.043	6.014	6.074	0.085	4.6
Aldrin	1	6.291	6.264	6.324	0.10	
	2	6.107	6.078	6.138	0.10	0.0
alpha-BHC	1	5.558	5.531	5.591	0.10	
	2	5.400	5.371	5.431	0.099	1.0
beta-BHC	1	5.821	5.793	5.853	0.086	
	2	5.667	5.638	5.698	0.088	2.3
delta-BHC	1	5.940	5.913	5.973	0.061	
	2	5.853	5.825	5.885	0.060	1.7
Dieldrin	1	7.191	7.164	7.224	0.10	
	2	6.973	6.944	7.004	0.10	0.0
Endosulfan I	1	7.013	6.986	7.046	0.095	
	2	6.773	6.744	6.804	0.093	2.1
Endosulfan II	1	7.538	7.512	7.572	0.085	
	2	7.357	7.329	7.389	0.071	17.9
Endosulfan Sulfate	1	8.181	8.155	8.215	0.042	
	2	7.835	7.808	7.868	0.049	15.4
Endrin	1	7.367	7.341	7.401	0.092	
	2	7.196	7.168	7.228	0.089	3.3
Endrin Aldehyde	1	7.863	7.837	7.897	0.11	
	2	7.616	7.589	7.649	0.11	0.0
Endrin Ketone	1	8.366	8.339	8.399	0.083	
	2	8.213	8.185	8.245	0.078	6.2
gamma-BHC (Lindane)	1	5.765	5.737	5.797	0.098	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B342469-MSD1 Date(s) Analyzed: 06/11/2023 06/11/2023
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.616	5.586	5.646	0.096	2.1
Heptachlor	1	6.083	6.055	6.115	0.11	
	2	5.895	5.866	5.926	0.10	9.5
Heptachlor Epoxide	1	6.723	6.697	6.757	0.097	
	2	6.497	6.468	6.528	0.096	1.0
Hexachlorobenzene	1	5.448	5.420	5.480	0.10	
	2	5.315	5.285	5.345	0.10	0.0
Methoxychlor	1	8.002	7.976	8.036	0.090	
	2	8.072	8.043	8.103	0.089	1.1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B342941-BS1 Date(s) Analyzed: 06/13/2023 06/13/2023
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.412	7.382	7.442	0.092	
	2	7.294	7.263	7.323	0.091	1.1
4,4'-DDE	1	6.962	6.930	6.990	0.088	
	2	6.863	6.832	6.892	0.088	0.0
4,4'-DDT	1	7.627	7.596	7.656	0.085	
	2	7.535	7.503	7.563	0.077	9.9
Alachlor	1	6.386	6.355	6.415	0.074	
	2	6.041	6.011	6.071	0.074	0.0
Aldrin	1	6.290	6.260	6.320	0.090	
	2	6.105	6.075	6.135	0.088	2.3
alpha-BHC	1	5.557	5.527	5.587	0.095	
	2	5.398	5.368	5.428	0.091	4.3
alpha-Chlordane	1	6.908	6.877	6.937	0.084	
	2	6.733	6.703	6.763	0.087	3.5
beta-BHC	1	5.819	5.789	5.849	0.080	
	2	5.666	5.636	5.696	0.081	1.2
delta-BHC	1	5.939	5.910	5.970	0.084	
	2	5.852	5.822	5.882	0.081	3.6
Dieldrin	1	7.189	7.158	7.218	0.086	
	2	6.971	6.940	7.000	0.087	1.2
Endosulfan I	1	7.011	6.980	7.040	0.082	
	2	6.771	6.741	6.801	0.082	0.0
Endosulfan II	1	7.535	7.506	7.566	0.075	
	2	7.355	7.324	7.384	0.078	3.9
Endosulfan Sulfate	1	8.179	8.149	8.209	0.068	
	2	7.834	7.802	7.862	0.078	13.7
Endrin	1	7.365	7.335	7.395	0.083	
	2	7.195	7.164	7.224	0.079	4.9
Endrin Aldehyde	1	7.863	7.832	7.892	0.072	
	2	7.616	7.585	7.645	0.083	14.2
Endrin Ketone	1	8.363	8.334	8.394	0.078	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B342941-BS1 Date(s) Analyzed: 06/13/2023 06/13/2023
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.212	8.181	8.241	0.073	6.6
gamma-BHC (Lindane)	1	5.763	5.733	5.793	0.091	
	2	5.614	5.584	5.644	0.087	4.5
gamma-Chlordane	1	6.811	6.780	6.840	0.074	
	2	6.629	6.599	6.659	0.089	18.4
Heptachlor	1	6.081	6.051	6.111	0.094	
	2	5.894	5.863	5.923	0.089	5.5
Heptachlor Epoxide	1	6.722	6.691	6.751	0.085	
	2	6.495	6.465	6.525	0.084	1.2
Hexachlorobenzene	1	5.447	5.417	5.477	0.091	
	2	5.313	5.283	5.343	0.092	1.1
Methoxychlor	1	8.000	7.970	8.030	0.075	
	2	8.070	8.039	8.099	0.076	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B342941-BSD1 Date(s) Analyzed: 06/13/2023 06/13/2023
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.412	7.382	7.442	0.091	
	2	7.293	7.263	7.323	0.089	2.2
4,4'-DDE	1	6.962	6.930	6.990	0.086	
	2	6.862	6.832	6.892	0.086	0.0
4,4'-DDT	1	7.628	7.596	7.656	0.084	
	2	7.533	7.503	7.563	0.075	11.3
Alachlor	1	6.386	6.355	6.415	0.073	
	2	6.041	6.011	6.071	0.074	1.4
Aldrin	1	6.290	6.260	6.320	0.089	
	2	6.105	6.075	6.135	0.088	1.1
alpha-BHC	1	5.558	5.527	5.587	0.093	
	2	5.398	5.368	5.428	0.091	2.2
alpha-Chlordane	1	6.908	6.877	6.937	0.082	
	2	6.733	6.703	6.763	0.085	3.6
beta-BHC	1	5.820	5.789	5.849	0.079	
	2	5.666	5.636	5.696	0.080	1.3
delta-BHC	1	5.940	5.910	5.970	0.083	
	2	5.851	5.822	5.882	0.081	2.4
Dieldrin	1	7.189	7.158	7.218	0.085	
	2	6.970	6.940	7.000	0.086	1.2
Endosulfan I	1	7.011	6.980	7.040	0.081	
	2	6.771	6.741	6.801	0.081	0.0
Endosulfan II	1	7.536	7.506	7.566	0.073	
	2	7.355	7.324	7.384	0.077	5.3
Endosulfan Sulfate	1	8.178	8.149	8.209	0.067	
	2	7.833	7.802	7.862	0.077	13.9
Endrin	1	7.365	7.335	7.395	0.081	
	2	7.194	7.164	7.224	0.077	5.1
Endrin Aldehyde	1	7.862	7.832	7.892	0.077	
	2	7.615	7.585	7.645	0.083	7.5
Endrin Ketone	1	8.364	8.334	8.394	0.077	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B342941-BSD1 Date(s) Analyzed: 06/13/2023 06/13/2023
 Instrument ID (1): ECD2A Instrument ID (2): ECD2B
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	8.211	8.181	8.241	0.071	8.1
gamma-BHC (Lindane)	1	5.764	5.733	5.793	0.090	
	2	5.614	5.584	5.644	0.087	3.4
gamma-Chlordane	1	6.811	6.780	6.840	0.072	
	2	6.628	6.599	6.659	0.088	20.0
Heptachlor	1	6.082	6.051	6.111	0.092	
	2	5.893	5.863	5.923	0.089	3.3
Heptachlor Epoxide	1	6.722	6.691	6.751	0.083	
	2	6.494	6.465	6.525	0.083	0.0
Hexachlorobenzene	1	5.447	5.417	5.477	0.090	
	2	5.313	5.283	5.343	0.091	1.1
Methoxychlor	1	8.001	7.970	8.030	0.074	
	2	8.070	8.039	8.099	0.074	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated laboratory blank as well as in the sample.
DL-03	Elevated reporting limit due to matrix interference.
H-06	Sample was extracted past the recommended holding time.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-07A2	Matrix spike and spike duplicate recovery is outside of control limits on the low side.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
MS-23	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
S-10	Sample was re-extracted outside of holding time since surrogate standard recovery was outside of control limits. Data from analysis performed outside of holding time is also reported since surrogate recovery is acceptable.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-35	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>Lloyd Kahn Method in Soil</i>	
Total Organic Carbon	NY,CT,ME,VA,NH
<i>SW-846 8081B in Soil</i>	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8081B in Water</i>	
Alachlor	NC
Alachlor	NC
Alachlor [2C]	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8081B in Water</i>	
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
<i>SW-846 8260D in Soil</i>	
Acetone	CT,NH,NY,ME,VA
Acrylonitrile	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Bromobenzene	NH,NY,ME,VA

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260D in Soil</i>	
Bromochloromethane	NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
tert-Butyl Alcohol (TBA)	NY,ME
n-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
2-Chlorotoluene	CT,NH,NY,ME,VA
4-Chlorotoluene	CT,NH,NY,ME,VA
Cyclohexane	NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY,ME
1,2-Dibromoethane (EDB)	NH,NY
Dibromomethane	NH,NY,ME,VA
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
trans-1,4-Dichloro-2-butene	NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
1,3-Dichloropropane	NH,NY,ME,VA
2,2-Dichloropropane	NH,NY,ME,VA
1,1-Dichloropropene	NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
Diethyl Ether	ME
1,4-Dioxane	NY,ME
Ethylbenzene	CT,NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl Acetate	NY,ME
Methyl tert-Butyl Ether (MTBE)	NY,ME,VA

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260D in Soil</i>	
Methyl Cyclohexane	NY
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
n-Propylbenzene	NH,NY,ME
Styrene	CT,NH,NY,ME,VA
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,3-Trichlorobenzene	NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY,ME
<i>SW-846 8260D in Water</i>	
Acetone	CT,ME,NH,VA,NY
Acrylonitrile	CT,ME,NH,VA,NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromobenzene	ME,NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260D in Water</i>	
Chloromethane	CT,ME,NH,VA,NY
2-Chlorotoluene	ME,NH,VA,NY
4-Chlorotoluene	ME,NH,VA,NY
Cyclohexane	ME,NY
1,2-Dibromo-3-chloropropane (DBCP)	ME,NY
1,2-Dibromoethane (EDB)	ME,NY
Dibromomethane	ME,NH,VA,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
trans-1,4-Dichloro-2-butene	ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
1,3-Dichloropropane	ME,VA,NY
2,2-Dichloropropane	ME,NH,VA,NY
1,1-Dichloropropene	ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diethyl Ether	ME,NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	ME,NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	ME,NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,1,2-Tetrachloroethane	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,ME,NH,VA,NY

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260D in Water</i>	
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	ME,NY
<i>SW-846 8270E in Soil</i>	
1,4-Dioxane	NY,NH
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Aniline	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzidine	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Benzoic Acid	NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270E in Soil</i>	
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
1,2-Diphenylhydrazine/Azobenzene	NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodimethylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodiphenylamine/Diphenylamine	NY
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachloronitrobenzene	NY,NC
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
Pyridine	CT,NY,NH,ME,NC,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
Atrazine	ME,NC
2-Fluorophenol	NC
<i>SW-846 8270E in Water</i>	
1,4-Dioxane	NY,NH
Acenaphthene	CT,NY,NC,ME,NH,VA

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270E in Water</i>	
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Acetophenone	NY,NC
Aniline	CT,NY,NC,ME,VA
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzidine	CT,NY,NC,ME,NH,VA
Benzidine	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Benzoic Acid	NY,NC,ME,NH,VA
Benzoic Acid	NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-chloroisopropyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-chloroisopropyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
Chrysene	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
1,2-Diphenylhydrazine/Azobenzene	NY,NC
1,2-Diphenylhydrazine/Azobenzene	NY,NC
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270E in Water</i>	
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodimethylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodimethylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodiphenylamine/Diphenylamine	NY
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachloronitrobenzene	NC
Pentachloronitrobenzene	NC
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270E in Water</i>	
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC
2-Fluorophenol	NC

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NC	North Carolina Div. of Water Quality	652	12/31/2023
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2023

Page 3 of 4

Preservation Code

Container Code

Dissolved Metals Samples

Field Filtered

☐ Lab to Filter

1000

Orthophosphate Samples

Field Filtered

Lab to Filter

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Container Codes:

A = Amber Glass
G = Glass

P = Plastic

ST = Sterile

V = Vial
 S = Summa Canister

T = Tedlar Bag

0 = Other (please

1991

[illegible]

PCB ONLY

Soxhlet

☐ Non Soxhlet

Abstract

Page 183 of 186

Phone: 612-607-6400
Fax: 612-607-6344

<https://www.pacelabs.com/>

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CHAIN OF CUSTODY RECORD (New York)

1800 Elm Street SE
Minneapolis, MN 55414

Page 4 of 4

Contact: <https://www.pacelabs.com/contact-us/contact-environmental-sciences/>

Company Name:

Address:

Phone:

Project Name:

Project Location:

Project Number:

Project Manager:

Pace Analytical Quote Name/Number

Invoice Recipient:

Sampled By:

Requested Turnaround Time
7-Day ☐ 10-Day ☐

Due Date:

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☐ EXCEL ☐

Other:

CLP Like Data Pkg Required: ☐

Email To:

Fax To #:

Pace Analytical Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Cont Code
6	518014-SW-01	5/24/23	1225		☒	SW	U
7	518014-SD-01	5/24/23	1235		☒	S	U
8	518014-FB-052423	5/24/23	1250		☒	W	C
9	518014-FB-052423	5/24/23	1255		☒	W	C
10	518014-FD-01-SW	5/24/23	—		☒	SW	U
11	518014-FD-01-SD	5/24/23	—		☒	S	U
12	518014-SW-03	5/24/23	1305		☒	SW	U
13	518014-SD-03	5/24/23	1355		☒	S	U

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) *[Signature]* Date/Time: 5/24/23 1550

Received by: (signature) *[Signature]* Date/Time: 5-24-23 1530

Relinquished by: (signature) *[Signature]* Date/Time: 5-25-23 1115

Relinquished by: (signature) *[Signature]* Date/Time: 5-25-23 1440

Relinquished by: (signature) *[Signature]* Date/Time: 5-25-23 1700

Relinquished by: (signature) *[Signature]* Date/Time: 5/25/23 1700

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375

Enhanced Data Package
☐ NYSDEC EQUIS EDD
☐ EQUIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD

Deliverables
☐ Chromatogram
☐ AIHA-LAP, LLC

Other: ☐ WRTA ☐ MWRA ☐ School ☐ MBTA
☐ Municipality ☐ 21 J ☐ Brownfield
☐ Government ☐ Federal ☐ City

Project Entity
☐ Government ☐ Federal ☐ City

Other: ☐ Chromatogram ☐ AIHA-LAP, LLC

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.pacelabs.com

ENV-FRM-ELON-0001 V05 Sample Receiving Checklist

Log In Back-Sheet

Login Sample Receipt Checklist - (Rejection Criteria Listing
- Using Acceptance Policy) Any False statement will be
brought to the attention of the Client - True or False



Client EA Engineering

Project Karkey

MCP/RCP Required No

Deliverable Package Requirement No

Location NY

PWSID# (When Applicable) NA

Arrival Method:

Courier ☒ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time GC 5/25/23 1700

Back-Sheet By / Date / Time GC 5/25/23 2233

Temperature Method gun # 5

Temp ☒ < 6° C Actual Temperature 5.3, 4.6, 2.9, 3.7, 4.2, 5.1

Rush Samples: Yes / ☒ No Notify 3.9, 4.9, 2.1, 2.1, 5.5, 3.8

Short Hold: Yes / ☒ No Notify

Notes regarding Samples/COC outside of SOP:

	True	False
Received on Ice	☒	☐
Received in Cooler	☒	☐
Custody Seal: DATE <u>5/24/23</u> TIME	☒	☐
COC Relinquished	☒	☐
COC/Samples Labels Agree	☒	☐
All Samples in Good Condition	☒	☐
Samples Received within Holding Time	☒	☐
Is there enough Volume	☒	☐
Proper Media/Container Used	☒	☐
Splitting Samples Required	☒	☒
MS/MSD	☒	☐
Trip Blanks	☐	☒
Lab to Filters	☐	☒
COC Legible	☒	☐

COC Included: (Check all included)

Client ☒ Analysis ☐ Sampler Name ☒
Project ☒ IDs ☐ Collection Date/Time ☐

All Samples Proper pH: N/A ☐ ☐

Additional Container Notes

Sample	Soils Jars				Ambers				Plastics						VOA Vials					Other / Fill in								
	16oz Amb/Clear (Circle Amb/Clear)	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	1 Liter		250mL		100mL	1 Liter		500mL		250mL				Unpreserved	HCl	MeOH	D.I. Water	BiSulfate	Col/Bact					
					Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Sulfuric	Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric											
1					2					Unpreserved									2									
2					2				4										2									
3					2				4										2									
4					6				12										6									
5	3								4										3			6						
6					2														2									
7	1								4										1			2						
8					2				4										2									
9	1																		1			2						
10					2				4										2									
11	1																		1			2						
12																												
13																												
14																												
15																												
16																												
17																												
18																												
19																												
20																												

June 26, 2023

Joshua Oliver
NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202

Project Location: Broadalbin, NY
Client Job Number:
Project Number: 518014
Laboratory Work Order Number: 23E3540

Enclosed are results of analyses for samples as received by the laboratory on May 25, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle K. Stuckey
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202
ATTN: Joshua Oliver

REPORT DATE: 6/26/2023

PURCHASE ORDER NUMBER: 141733

PROJECT NUMBER: 518014

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23E3540

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Broadalbin, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
518014-MW-23	23E3540-01	Ground Water		Draft Method 1633	
518014-ASW	23E3540-02	Ground Water		Draft Method 1633	
518014-VEW-2	23E3540-03	Ground Water		Draft Method 1633	
518014-VEW-3	23E3540-04	Ground Water		Draft Method 1633	
518014-VEW-4	23E3540-05	Ground Water		Draft Method 1633	
518014-VEW-1	23E3540-06	Ground Water		Draft Method 1633	
518014-K-2	23E3540-07	Ground Water		Draft Method 1633	
518014-MW-18	23E3540-08	Ground Water		Draft Method 1633	
518014-MW-22	23E3540-09	Ground Water		Draft Method 1633	
518014-MW-17	23E3540-10	Ground Water		Draft Method 1633	
518014-K-3	23E3540-11	Ground Water		Draft Method 1633	
518014-MW-15S	23E3540-12	Ground Water		Draft Method 1633	
518014-MW-21	23E3540-13	Ground Water		Draft Method 1633	
518014-MW-24	23E3540-14	Ground Water		Draft Method 1633	
518014-MW-8S	23E3540-15	Ground Water		Draft Method 1633	
518014-DUP-1-GW	23E3540-16	Ground Water		Draft Method 1633	
518014-MW-20	23E3540-17	Ground Water		Draft Method 1633	
518014-FB-052323	23E3540-18	Ground Water		Draft Method 1633	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

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Draft Method 1633**Qualifications:****E**

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:**Perfluorooctanesulfonic acid (PFOS)**

23E3540-05[518014-VEW-4], 23E3540-06[518014-VEW-1]

H-01

Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.

Analyte & Samples(s) Qualified:**Total Suspended Solids**

23E3540-01[518014-MW-23], 23E3540-02[518014-ASW], 23E3540-03[518014-VEW-2], 23E3540-04[518014-VEW-3], 23E3540-05[518014-VEW-4], 23E3540-06[518014-VEW-1], 23E3540-07[518014-K-2], 23E3540-08[518014-MW-18], 23E3540-09[518014-MW-22], 23E3540-10[518014-MW-17], 23E3540-11[518014-K-3], 23E3540-12[518014-MW-15S], 23E3540-13[518014-MW-21], 23E3540-14[518014-MW-24], 23E3540-15[518014-MW-8S], 23E3540-16[518014-DUP-1-GW], 23E3540-17[518014-MW-20]

MS-12

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:**11Cl-PF3OUdS (F53B Major)**

B342300-MS1, B342300-MSD1

2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTI

B342300-MS1, B342300-MSD1

3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTC/

B342300-MS1, B342300-MSD1

9Cl-PF3ONS (F53B Minor)

B342300-MS1, B342300-MSD1

Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)

B342300-MS1, B342300-MSD1

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:**Perfluorooctanesulfonic acid (PFOS)**

B342300-MSD1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:**4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**

B342300-MS1

MS-23

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:**Perfluoropentanoic acid (PFPeA)**

B342300-MSD1

PF-17

Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.

Analyte & Samples(s) Qualified:**13C2-8:2FTS**

23E3540-06[518014-VEW-1]

1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS

23E3540-06[518014-VEW-1]

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PF-18

Duplicate analysis confirmed Extracted Internal Standard failure due to matrix effects.

Analyte & Samples(s) Qualified:**13C4-PFBA**

23E3540-09[518014-MW-22], 23E3540-10[518014-MW-17], B342300-MS1, B342300-MSD1

Perfluorobutanoic acid (PFBA)

23E3540-09[518014-MW-22], 23E3540-10[518014-MW-17], B342300-MS1, B342300-MSD1

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:**Perfluorobutanoic acid (PFBA)**

23E3540-09[518014-MW-22], B342300-MSD1

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:**13C4-PFBA**

23E3540-05[518014-VEW-4]

D5-NEtFOSAA

23E3540-05[518014-VEW-4]

N-EtFOSAA (NEtFOSAA)

23E3540-05[518014-VEW-4]

Perfluorobutanoic acid (PFBA)

23E3540-05[518014-VEW-4]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-23

Sampled: 5/23/2023 08:33

Sample ID: 23E3540-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	3.8	1.4	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
Perfluoropentanoic acid (PFPeA)	ND	1.9	0.33	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
Perfluorohexanoic acid (PFHxA)	ND	0.95	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
Perfluoroheptanoic acid (PFHpA)	ND	0.95	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
Perfluorooctanoic acid (PFOA)	ND	0.95	0.21	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
Perfluorononanoic acid (PFNA)	ND	0.95	0.18	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
Perfluorodecanoic acid (PFDA)	ND	0.95	0.17	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.95	0.26	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.95	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.95	0.26	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.95	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	0.95	0.25	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.95	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	0.95	0.19	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.95	0.29	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	0.95	0.30	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.95	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.95	0.30	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.95	0.25	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.8	0.66	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.8	0.93	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.8	1.0	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.95	0.29	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.95	0.39	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.95	0.29	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.95	0.42	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.95	0.21	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.5	2.5	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.5	2.3	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.8	0.99	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.8	0.65	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.8	0.81	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
11Cl-PF3OUDS (F53B Major)	ND	3.8	0.92	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.5	1.7	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	47	9.7	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	47	8.3	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.46	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.47	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-23

Sampled: 5/23/2023 08:33

Sample ID: 23E3540-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	0.38	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.82	ng/L	1		Draft Method 1633	6/12/23	6/14/23 19:49	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	72.6		20-150				6/14/23 19:49			
13C5-PFPeA	69.6		20-150				6/14/23 19:49			
13C5-PFHxA	69.6		20-150				6/14/23 19:49			
13C4-PFHpA	68.2		20-150				6/14/23 19:49			
13C8-PFOA	72.1		20-150				6/14/23 19:49			
13C9-PFNA	72.4		20-150				6/14/23 19:49			
13C6-PFDA	72.3		20-150				6/14/23 19:49			
13C7-PFUnA	69.2		20-150				6/14/23 19:49			
13C2-PFDoA	69.3		20-150				6/14/23 19:49			
13C2-PFTeDA	67.7		20-150				6/14/23 19:49			
13C3-PFBS	71.4		20-150				6/14/23 19:49			
13C3-PFHxS	69.5		20-150				6/14/23 19:49			
13C8-PFOS	69.3		20-150				6/14/23 19:49			
13C2-4:2FTS	63.9		20-150				6/14/23 19:49			
13C2-6:2FTS	65.2		20-150				6/14/23 19:49			
13C2-8:2FTS	63.7		20-150				6/14/23 19:49			
13C8-PFOSA	65.9		20-150				6/14/23 19:49			
D3-NMeFOSA	61.3		20-150				6/14/23 19:49			
D5-NEtFOSA	63.5		20-150				6/14/23 19:49			
D3-NMeFOSAA	70.1		20-150				6/14/23 19:49			
D5-NEtFOSAA	68.8		20-150				6/14/23 19:49			
D7-NMeFOSE	65.2		20-150				6/14/23 19:49			
D9-NEtFOSE	64.4		20-150				6/14/23 19:49			
13C3-HFPO-DA	71.3		20-150				6/14/23 19:49			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-23

Sampled: 5/23/2023 08:33

Sample ID: 23E3540-01

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1	H-01	Draft Method 1633	6/1/23	6/1/23 13:35	LL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-ASW

Sampled: 5/23/2023 08:38

Sample ID: 23E3540-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	4.7	3.5	1.3	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
Perfluoropentanoic acid (PFPeA)	1.9	1.7	0.30	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
Perfluorohexanoic acid (PFHxA)	4.5	0.87	0.19	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
Perfluoroheptanoic acid (PFHpA)	2.2	0.87	0.22	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
Perfluorooctanoic acid (PFOA)	5.9	0.87	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
Perfluorononanoic acid (PFNA)	1.0	0.87	0.17	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
Perfluorodecanoic acid (PFDA)	0.20	0.87	0.16	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 20:05	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.87	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.87	0.22	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.87	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.87	0.22	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
Perfluorobutanesulfonic acid (PFBS)	1.7	0.87	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.87	0.21	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
Perfluorohexanesulfonic acid (PFHxS)	1.1	0.87	0.18	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
Perfluoroheptanesulfonic acid (PFHpS)	0.31	0.87	0.27	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 20:05	AMS
Perfluorooctanesulfonic acid (PFOS)	19	0.87	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.87	0.26	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.87	0.27	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.87	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.5	0.61	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.5	0.86	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.5	0.94	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
Perfluorooctanesulfonamide (PFOSA)	0.46	0.87	0.27	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 20:05	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.87	0.36	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.87	0.27	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.87	0.38	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
N-EtFOSAA (NEtFOSAA)	2.6	0.87	0.19	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	8.7	2.3	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	8.7	2.1	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.5	0.91	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.5	0.60	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.5	0.74	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
11Cl-PF3OUDs (F53B Major)	ND	3.5	0.84	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.7	1.6	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	43	8.9	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	43	7.6	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.7	0.43	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.7	0.43	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-ASW

Sampled: 5/23/2023 08:38

Sample ID: 23E3540-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.7	0.35	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7	0.75	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:05	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	30.7		20-150				6/14/23 20:05			
13C5-PFPeA	58.5		20-150				6/14/23 20:05			
13C5-PFHxA	69.8		20-150				6/14/23 20:05			
13C4-PFHpA	66.3		20-150				6/14/23 20:05			
13C8-PFOA	64.6		20-150				6/14/23 20:05			
13C9-PFNA	66.5		20-150				6/14/23 20:05			
13C6-PFDA	64.9		20-150				6/14/23 20:05			
13C7-PFUnA	65.6		20-150				6/14/23 20:05			
13C2-PFDoA	63.4		20-150				6/14/23 20:05			
13C2-PFTeDA	59.1		20-150				6/14/23 20:05			
13C3-PFBS	64.9		20-150				6/14/23 20:05			
13C3-PFHxS	67.7		20-150				6/14/23 20:05			
13C8-PFOS	64.2		20-150				6/14/23 20:05			
13C2-4:2FTS	121		20-150				6/14/23 20:05			
13C2-6:2FTS	106		20-150				6/14/23 20:05			
13C2-8:2FTS	88.0		20-150				6/14/23 20:05			
13C8-PFOSA	57.2		20-150				6/14/23 20:05			
D3-NMeFOSA	47.1		20-150				6/14/23 20:05			
D5-NEtFOSA	49.0		20-150				6/14/23 20:05			
D3-NMeFOSAA	51.5		20-150				6/14/23 20:05			
D5-NEtFOSAA	50.2		20-150				6/14/23 20:05			
D7-NMeFOSE	51.6		20-150				6/14/23 20:05			
D9-NEtFOSE	50.4		20-150				6/14/23 20:05			
13C3-HFPO-DA	66.2		20-150				6/14/23 20:05			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-ASW

Sampled: 5/23/2023 08:38

Sample ID: 23E3540-02

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	22	10	mg/L	1	H-01	Draft Method 1633	6/1/23	6/1/23 13:35	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-VEW-2

Sampled: 5/23/2023 09:41

Sample ID: 23E3540-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	3.6	1.3	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
Perfluoropentanoic acid (PFPeA)	0.74	1.8	0.32	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 20:20	AMS
Perfluorohexanoic acid (PFHxA)	0.64	0.91	0.20	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 20:20	AMS
Perfluoroheptanoic acid (PFHpA)	0.61	0.91	0.23	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 20:20	AMS
Perfluorooctanoic acid (PFOA)	3.0	0.91	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
Perfluorononanoic acid (PFNA)	ND	0.91	0.17	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
Perfluorodecanoic acid (PFDA)	ND	0.91	0.17	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.91	0.25	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.91	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.91	0.25	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.91	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
Perfluorobutanesulfonic acid (PFBS)	0.67	0.91	0.24	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 20:20	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.91	0.22	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
Perfluorohexanesulfonic acid (PFHxS)	0.24	0.91	0.19	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 20:20	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.91	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
Perfluorooctanesulfonic acid (PFOS)	0.95	0.91	0.29	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.91	0.27	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.91	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.91	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	0.63	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	0.90	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	0.98	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.91	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.91	0.38	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.91	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.91	0.40	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.91	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.1	2.4	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.1	2.2	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	0.95	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.6	0.62	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.6	0.77	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
11Cl-PF3OUDs (F53B Major)	ND	3.6	0.88	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.1	1.6	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	45	9.3	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	45	8.0	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.44	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-VEW-2

Sampled: 5/23/2023 09:41

Sample ID: 23E3540-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.36	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.79	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:20	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	68.8		20-150				6/14/23 20:20			
13C5-PFPeA	64.2		20-150				6/14/23 20:20			
13C5-PFHxA	68.1		20-150				6/14/23 20:20			
13C4-PFHpA	66.4		20-150				6/14/23 20:20			
13C8-PFOA	67.4		20-150				6/14/23 20:20			
13C9-PFNA	66.0		20-150				6/14/23 20:20			
13C6-PFDA	65.3		20-150				6/14/23 20:20			
13C7-PFUnA	61.1		20-150				6/14/23 20:20			
13C2-PFDoA	59.5		20-150				6/14/23 20:20			
13C2-PFTeDA	56.4		20-150				6/14/23 20:20			
13C3-PFBS	71.1		20-150				6/14/23 20:20			
13C3-PFHxS	70.7		20-150				6/14/23 20:20			
13C8-PFOS	66.0		20-150				6/14/23 20:20			
13C2-4:2FTS	96.2		20-150				6/14/23 20:20			
13C2-6:2FTS	71.2		20-150				6/14/23 20:20			
13C2-8:2FTS	60.2		20-150				6/14/23 20:20			
13C8-PFOSA	59.9		20-150				6/14/23 20:20			
D3-NMeFOSA	53.5		20-150				6/14/23 20:20			
D5-NEtFOSA	51.9		20-150				6/14/23 20:20			
D3-NMeFOSAA	59.3		20-150				6/14/23 20:20			
D5-NEtFOSAA	57.8		20-150				6/14/23 20:20			
D7-NMeFOSE	56.5		20-150				6/14/23 20:20			
D9-NEtFOSE	54.6		20-150				6/14/23 20:20			
13C3-HFPO-DA	67.2		20-150				6/14/23 20:20			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-VEW-2

Sampled: 5/23/2023 09:41

Sample ID: 23E3540-03

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1	H-01	Draft Method 1633	6/1/23	6/1/23 13:35	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-VEW-3

Sampled: 5/23/2023 09:45

Sample ID: 23E3540-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	8.0	3.7	1.3	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
Perfluoropentanoic acid (PFPeA)	ND	1.8	0.32	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
Perfluorohexanoic acid (PFHxA)	12	0.92	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
Perfluoroheptanoic acid (PFHpA)	19	0.92	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
Perfluorooctanoic acid (PFOA)	200	0.92	0.21	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
Perfluorononanoic acid (PFNA)	3.8	0.92	0.18	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
Perfluorodecanoic acid (PFDA)	0.20	0.92	0.17	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 20:36	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.92	0.25	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.92	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.92	0.25	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.92	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
Perfluorobutanesulfonic acid (PFBS)	6.2	0.92	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
Perfluoropentanesulfonic acid (PFPeS)	10	0.92	0.22	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
Perfluorohexanesulfonic acid (PFHxS)	70	0.92	0.19	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
Perfluoroheptanesulfonic acid (PFHpS)	65	0.92	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
Perfluorooctanesulfonic acid (PFOS)	1400	9.2	2.9	ng/L	10	D	Draft Method 1633	6/12/23	6/15/23 11:22	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.92	0.27	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.92	0.29	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.92	0.25	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.7	0.64	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.7	0.91	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.7	1.0	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.92	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.92	0.38	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.92	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.92	0.41	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
N-EtFOSAA (NEtFOSAA)	5.5	0.92	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.2	2.4	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.2	2.3	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.7	0.97	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.7	0.63	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.7	0.79	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
11Cl-PF3OUDs (F53B Major)	ND	3.7	0.89	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.2	1.7	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	46	9.4	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	46	8.1	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.46	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-VEW-3

Sampled: 5/23/2023 09:45

Sample ID: 23E3540-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.37	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.80	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:36	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	43.2		20-150				6/14/23 20:36			
13C5-PFPeA	58.8		20-150				6/14/23 20:36			
13C5-PFHxA	66.1		20-150				6/14/23 20:36			
13C4-PFHpA	64.0		20-150				6/14/23 20:36			
13C8-PFOA	67.8		20-150				6/14/23 20:36			
13C9-PFNA	66.4		20-150				6/14/23 20:36			
13C6-PFDA	65.5		20-150				6/14/23 20:36			
13C7-PFUnA	65.8		20-150				6/14/23 20:36			
13C2-PFDoA	62.7		20-150				6/14/23 20:36			
13C2-PFTeDA	56.4		20-150				6/14/23 20:36			
13C3-PFBS	69.2		20-150				6/14/23 20:36			
13C3-PFHxS	65.1		20-150				6/14/23 20:36			
13C8-PFOS	68.3		20-150				6/14/23 20:36			
13C8-PFOS	73.2		20-150				6/15/23 11:22			
13C2-4:2FTS	107		20-150				6/14/23 20:36			
13C2-6:2FTS	91.1		20-150				6/14/23 20:36			
13C2-8:2FTS	88.3		20-150				6/14/23 20:36			
13C8-PFOSA	69.0		20-150				6/14/23 20:36			
D3-NMeFOSA	62.7		20-150				6/14/23 20:36			
D5-NEtFOSA	62.2		20-150				6/14/23 20:36			
D3-NMeFOSAA	64.0		20-150				6/14/23 20:36			
D5-NEtFOSAA	62.2		20-150				6/14/23 20:36			
D7-NMeFOSE	62.2		20-150				6/14/23 20:36			
D9-NEtFOSE	58.0		20-150				6/14/23 20:36			
13C3-HFPO-DA	65.3		20-150				6/14/23 20:36			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-VEW-3

Sampled: 5/23/2023 09:45

Sample ID: 23E3540-04

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1	H-01	Draft Method 1633	6/1/23	6/1/23 13:35	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-VEW-4

Sampled: 5/23/2023 10:45

Sample ID: 23E3540-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	61	3.7	1.3	ng/L	1	S-29	Draft Method 1633	6/12/23	6/14/23 20:52	AMS
Perfluoropentanoic acid (PFPeA)	ND	1.8	0.32	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
Perfluorohexanoic acid (PFHxA)	4.1	0.92	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
Perfluoroheptanoic acid (PFHpA)	7.2	0.92	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
Perfluorooctanoic acid (PFOA)	75	0.92	0.21	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
Perfluorononanoic acid (PFNA)	3.1	0.92	0.18	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
Perfluorodecanoic acid (PFDA)	0.60	0.92	0.17	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 20:52	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.92	0.25	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.92	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.92	0.25	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.92	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
Perfluorobutanesulfonic acid (PFBS)	2.0	0.92	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
Perfluoropentanesulfonic acid (PFPeS)	1.9	0.92	0.22	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
Perfluorohexanesulfonic acid (PFHxS)	11	0.92	0.19	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
Perfluoroheptanesulfonic acid (PFHpS)	11	0.92	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
Perfluorooctanesulfonic acid (PFOS)	950	0.92	0.29	ng/L	1	E	Draft Method 1633	6/12/23	6/14/23 20:52	AMS
Perfluorononanesulfonic acid (PFNS)	0.65	0.92	0.27	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 20:52	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.92	0.29	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.92	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.7	0.64	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.7	0.90	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.7	0.99	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
Perfluorooctanesulfonamide (PFOSA)	2.0	0.92	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.92	0.38	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.92	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.92	0.40	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
N-EtFOSAA (NEtFOSAA)	29	0.92	0.20	ng/L	1	S-29	Draft Method 1633	6/12/23	6/14/23 20:52	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.2	2.4	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.2	2.2	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.7	0.96	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.7	0.63	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.7	0.78	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
11Cl-PF3OUDs (F53B Major)	ND	3.7	0.89	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.2	1.6	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	46	9.4	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	46	8.1	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.46	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-VEW-4

Sampled: 5/23/2023 10:45

Sample ID: 23E3540-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.37	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.79	ng/L	1		Draft Method 1633	6/12/23	6/14/23 20:52	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	8.04	*	20-150		S-29		6/14/23 20:52			
13C5-PFPeA	44.9		20-150				6/14/23 20:52			
13C5-PFHxA	66.8		20-150				6/14/23 20:52			
13C4-PFHpA	67.5		20-150				6/14/23 20:52			
13C8-PFOA	65.2		20-150				6/14/23 20:52			
13C9-PFNA	66.6		20-150				6/14/23 20:52			
13C6-PFDA	66.1		20-150				6/14/23 20:52			
13C7-PFUnA	70.9		20-150				6/14/23 20:52			
13C2-PFDoA	76.8		20-150				6/14/23 20:52			
13C2-PFTeDA	65.3		20-150				6/14/23 20:52			
13C3-PFBS	64.2		20-150				6/14/23 20:52			
13C3-PFHxS	67.1		20-150				6/14/23 20:52			
13C8-PFOS	66.6		20-150				6/14/23 20:52			
13C2-4:2FTS	122		20-150				6/14/23 20:52			
13C2-6:2FTS	111		20-150				6/14/23 20:52			
13C2-8:2FTS	84.3		20-150				6/14/23 20:52			
13C8-PFOSA	84.6		20-150				6/14/23 20:52			
D3-NMeFOSA	75.9		20-150				6/14/23 20:52			
D5-NEtFOSA	75.2		20-150				6/14/23 20:52			
D3-NMeFOSAA	36.0		20-150				6/14/23 20:52			
D5-NEtFOSAA	18.5	*	20-150		S-29		6/14/23 20:52			
D7-NMeFOSE	81.9		20-150				6/14/23 20:52			
D9-NEtFOSE	76.9		20-150				6/14/23 20:52			
13C3-HFPO-DA	56.4		20-150				6/14/23 20:52			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-VEW-4

Sampled: 5/23/2023 10:45

Sample ID: 23E3540-05

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1	H-01	Draft Method 1633	6/1/23	6/1/23 13:35	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-VEW-1

Sampled: 5/23/2023 11:07

Sample ID: 23E3540-06

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	3.6	1.3	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
Perfluoropentanoic acid (PFPeA)	1.6	1.8	0.31	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 21:07	AMS
Perfluorohexanoic acid (PFHxA)	2.1	0.90	0.19	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
Perfluoroheptanoic acid (PFHpA)	2.4	0.90	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
Perfluorooctanoic acid (PFOA)	34	0.90	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
Perfluorononanoic acid (PFNA)	1.9	0.90	0.17	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
Perfluorodecanoic acid (PFDA)	ND	0.90	0.17	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.90	0.25	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.90	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.90	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.90	0.22	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
Perfluorobutanesulfonic acid (PFBS)	2.0	0.90	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
Perfluoropentanesulfonic acid (PFPeS)	0.92	0.90	0.21	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
Perfluorohexanesulfonic acid (PFHxS)	5.0	0.90	0.18	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
Perfluoroheptanesulfonic acid (PFHpS)	16	0.90	0.27	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
Perfluorooctanesulfonic acid (PFOS)	1200	0.90	0.29	ng/L	1	E	Draft Method 1633	6/12/23	6/14/23 21:07	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.90	0.26	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.90	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.90	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	0.63	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	0.89	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	0.97	ng/L	1	PF-17	Draft Method 1633	6/12/23	6/14/23 21:07	AMS
Perfluorooctanesulfonamide (PFOSA)	4.7	0.90	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.90	0.37	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.90	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.90	0.40	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
N-EtFOSAA (NEtFOSAA)	23	0.90	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.0	2.4	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.0	2.2	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	0.94	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.6	0.62	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.6	0.77	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
11Cl-PF3OUDs (F53B Major)	ND	3.6	0.87	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.0	1.6	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	45	9.2	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	45	7.9	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.44	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-VEW-1

Sampled: 5/23/2023 11:07

Sample ID: 23E3540-06

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.36	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.78	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:07	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	54.9		20-150				6/14/23 21:07			
13C5-PFPeA	68.4		20-150				6/14/23 21:07			
13C5-PFHxA	80.3		20-150				6/14/23 21:07			
13C4-PFHpA	75.7		20-150				6/14/23 21:07			
13C8-PFOA	80.9		20-150				6/14/23 21:07			
13C9-PFNA	79.8		20-150				6/14/23 21:07			
13C6-PFDA	82.6		20-150				6/14/23 21:07			
13C7-PFUnA	82.2		20-150				6/14/23 21:07			
13C2-PFDoA	78.9		20-150				6/14/23 21:07			
13C2-PFTeDA	74.1		20-150				6/14/23 21:07			
13C3-PFBS	78.4		20-150				6/14/23 21:07			
13C3-PFHxS	78.2		20-150				6/14/23 21:07			
13C8-PFOS	83.9		20-150				6/14/23 21:07			
13C2-4:2FTS	142		20-150				6/14/23 21:07			
13C2-6:2FTS	127		20-150				6/14/23 21:07			
13C2-8:2FTS	161		*				6/14/23 21:07			
13C8-PFOSA	81.3		20-150				6/14/23 21:07			
D3-NMeFOSA	70.3		20-150				6/14/23 21:07			
D5-NEtFOSA	66.3		20-150				6/14/23 21:07			
D3-NMeFOSAA	75.6		20-150				6/14/23 21:07			
D5-NEtFOSAA	68.3		20-150				6/14/23 21:07			
D7-NMeFOSE	77.8		20-150				6/14/23 21:07			
D9-NEtFOSE	70.5		20-150				6/14/23 21:07			
13C3-HFPO-DA	69.7		20-150				6/14/23 21:07			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-VEW-1

Sampled: 5/23/2023 11:07

Sample ID: 23E3540-06

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1	H-01	Draft Method 1633	6/1/23	6/1/23 13:35	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-K-2

Sampled: 5/23/2023 12:00

Sample ID: 23E3540-07

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	2.3	3.6	1.3	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 21:23	AMS
Perfluoropentanoic acid (PFPeA)	0.91	1.8	0.31	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 21:23	AMS
Perfluorohexanoic acid (PFHxA)	2.6	0.90	0.19	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
Perfluoroheptanoic acid (PFHpA)	5.9	0.90	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
Perfluorooctanoic acid (PFOA)	66	0.90	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
Perfluorononanoic acid (PFNA)	4.7	0.90	0.17	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
Perfluorodecanoic acid (PFDA)	0.24	0.90	0.17	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 21:23	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.90	0.25	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.90	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.90	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.90	0.22	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
Perfluorobutanesulfonic acid (PFBS)	1.8	0.90	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
Perfluoropentanesulfonic acid (PFPeS)	1.5	0.90	0.21	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
Perfluorohexanesulfonic acid (PFHxS)	9.2	0.90	0.18	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
Perfluoroheptanesulfonic acid (PFHpS)	14	0.90	0.27	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
Perfluorooctanesulfonic acid (PFOS)	990	9.0	2.9	ng/L	10	D	Draft Method 1633	6/12/23	6/15/23 11:37	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.90	0.26	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.90	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.90	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	0.63	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	0.89	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	0.97	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.90	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.90	0.37	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.90	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.90	0.40	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
N-EtFOSAA (NEtFOSAA)	0.59	0.90	0.20	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 21:23	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.0	2.4	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.0	2.2	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	0.94	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.6	0.62	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.6	0.77	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
11Cl-PF3OUDs (F53B Major)	ND	3.6	0.87	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.0	1.6	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	45	9.2	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	45	7.9	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.44	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-K-2

Sampled: 5/23/2023 12:00

Sample ID: 23E3540-07

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.36	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.78	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:23	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	59.9		20-150				6/14/23 21:23			
13C5-PFPeA	69.7		20-150				6/14/23 21:23			
13C5-PFHxA	80.3		20-150				6/14/23 21:23			
13C4-PFHpA	75.5		20-150				6/14/23 21:23			
13C8-PFOA	77.5		20-150				6/14/23 21:23			
13C9-PFNA	78.8		20-150				6/14/23 21:23			
13C6-PFDA	75.5		20-150				6/14/23 21:23			
13C7-PFUnA	75.3		20-150				6/14/23 21:23			
13C2-PFDoA	75.9		20-150				6/14/23 21:23			
13C2-PFTeDA	67.6		20-150				6/14/23 21:23			
13C3-PFBS	78.1		20-150				6/14/23 21:23			
13C3-PFHxS	76.5		20-150				6/14/23 21:23			
13C8-PFOS	80.1		20-150				6/14/23 21:23			
13C8-PFOS	86.0		20-150				6/15/23 11:37			
13C2-4:2FTS	130		20-150				6/14/23 21:23			
13C2-6:2FTS	104		20-150				6/14/23 21:23			
13C2-8:2FTS	89.8		20-150				6/14/23 21:23			
13C8-PFOSA	79.2		20-150				6/14/23 21:23			
D3-NMeFOSA	68.7		20-150				6/14/23 21:23			
D5-NEtFOSA	67.4		20-150				6/14/23 21:23			
D3-NMeFOSAA	71.9		20-150				6/14/23 21:23			
D5-NEtFOSAA	76.4		20-150				6/14/23 21:23			
D7-NMeFOSE	71.7		20-150				6/14/23 21:23			
D9-NEtFOSE	67.8		20-150				6/14/23 21:23			
13C3-HFPO-DA	77.0		20-150				6/14/23 21:23			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-K-2

Sampled: 5/23/2023 12:00

Sample ID: 23E3540-07

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1	H-01	Draft Method 1633	6/1/23	6/1/23 13:35	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-18

Sampled: 5/23/2023 12:11

Sample ID: 23E3540-08

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	3.6	1.3	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
Perfluoropentanoic acid (PFPeA)	ND	1.8	0.32	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
Perfluorohexanoic acid (PFHxA)	0.74	0.91	0.20	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 21:39	AMS
Perfluoroheptanoic acid (PFHpA)	0.98	0.91	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
Perfluorooctanoic acid (PFOA)	10	0.91	0.21	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
Perfluorononanoic acid (PFNA)	0.88	0.91	0.17	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 21:39	AMS
Perfluorodecanoic acid (PFDA)	0.17	0.91	0.17	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 21:39	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.91	0.25	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.91	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.91	0.25	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.91	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
Perfluorobutanesulfonic acid (PFBS)	1.0	0.91	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
Perfluoropentanesulfonic acid (PFPeS)	0.36	0.91	0.22	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 21:39	AMS
Perfluorohexanesulfonic acid (PFHxS)	2.3	0.91	0.19	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
Perfluoroheptanesulfonic acid (PFHpS)	2.6	0.91	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
Perfluorooctanesulfonic acid (PFOS)	31	0.91	0.29	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.91	0.27	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.91	0.29	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.91	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	0.64	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	0.90	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	0.99	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.91	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.91	0.38	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.91	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.91	0.40	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
N-EtFOSAA (NEtFOSAA)	0.97	0.91	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.1	2.4	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.1	2.2	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	0.95	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.6	0.63	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.6	0.78	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
11Cl-PF3OUDs (F53B Major)	ND	3.6	0.88	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.1	1.6	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	46	9.3	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	46	8.0	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-18

Sampled: 5/23/2023 12:11

Sample ID: 23E3540-08

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.37	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.79	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:39	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	50.7		20-150				6/14/23 21:39			
13C5-PFPeA	70.1		20-150				6/14/23 21:39			
13C5-PFHxA	74.6		20-150				6/14/23 21:39			
13C4-PFHpA	71.4		20-150				6/14/23 21:39			
13C8-PFOA	73.7		20-150				6/14/23 21:39			
13C9-PFNA	72.1		20-150				6/14/23 21:39			
13C6-PFDA	74.1		20-150				6/14/23 21:39			
13C7-PFUnA	71.0		20-150				6/14/23 21:39			
13C2-PFDoA	67.4		20-150				6/14/23 21:39			
13C2-PFTeDA	62.1		20-150				6/14/23 21:39			
13C3-PFBS	75.0		20-150				6/14/23 21:39			
13C3-PFHxS	73.5		20-150				6/14/23 21:39			
13C8-PFOS	70.7		20-150				6/14/23 21:39			
13C2-4:2FTS	112		20-150				6/14/23 21:39			
13C2-6:2FTS	87.6		20-150				6/14/23 21:39			
13C2-8:2FTS	107		20-150				6/14/23 21:39			
13C8-PFOSA	63.7		20-150				6/14/23 21:39			
D3-NMeFOSA	54.6		20-150				6/14/23 21:39			
D5-NEtFOSA	52.1		20-150				6/14/23 21:39			
D3-NMeFOSAA	48.5		20-150				6/14/23 21:39			
D5-NEtFOSAA	41.6		20-150				6/14/23 21:39			
D7-NMeFOSE	57.3		20-150				6/14/23 21:39			
D9-NEtFOSE	55.7		20-150				6/14/23 21:39			
13C3-HFPO-DA	74.9		20-150				6/14/23 21:39			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-18

Sampled: 5/23/2023 12:11

Sample ID: 23E3540-08

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1	H-01	Draft Method 1633	6/1/23	6/1/23 13:35	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-22

Sampled: 5/23/2023 13:05

Sample ID: 23E3540-09

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	33	3.5	1.3	ng/L	1	PF-18, R-06	Draft Method 1633	6/12/23	6/14/23 21:54	AMS
Perfluoropentanoic acid (PFPeA)	ND	1.7	0.30	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
Perfluorohexanoic acid (PFHxA)	7.3	0.87	0.19	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
Perfluoroheptanoic acid (PFHpA)	8.6	0.87	0.22	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
Perfluorooctanoic acid (PFOA)	76	0.87	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
Perfluorononanoic acid (PFNA)	30	0.87	0.17	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
Perfluorodecanoic acid (PFDA)	14	0.87	0.16	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.87	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.87	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.87	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.87	0.22	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
Perfluorobutanesulfonic acid (PFBS)	6.2	0.87	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
Perfluoropentanesulfonic acid (PFPeS)	4.2	0.87	0.21	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
Perfluorohexanesulfonic acid (PFHxS)	19	0.87	0.18	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
Perfluoroheptanesulfonic acid (PFHpS)	6.3	0.87	0.27	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
Perfluorooctanesulfonic acid (PFOS)	280	0.87	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.87	0.26	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.87	0.27	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.87	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.5	0.61	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.5	0.86	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.5	0.95	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
Perfluorooctanesulfonamide (PFOSA)	1.2	0.87	0.27	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.87	0.36	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.87	0.27	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.87	0.38	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
N-EtFOSAA (NEtFOSAA)	0.24	0.87	0.19	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 21:54	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	8.7	2.3	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	8.7	2.1	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.5	0.91	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.5	0.60	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.5	0.74	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
11Cl-PF3OUDs (F53B Major)	ND	3.5	0.84	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.7	1.6	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	44	8.9	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	44	7.7	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.7	0.43	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.7	0.43	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-22

Sampled: 5/23/2023 13:05

Sample ID: 23E3540-09

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.7	0.35	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7	0.76	ng/L	1		Draft Method 1633	6/12/23	6/14/23 21:54	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	5.66	*	20-150		PF-18			6/14/23	21:54	
13C5-PFPeA	20.5		20-150					6/14/23	21:54	
13C5-PFHxA	72.1		20-150					6/14/23	21:54	
13C4-PFHpA	115		20-150					6/14/23	21:54	
13C8-PFOA	74.6		20-150					6/14/23	21:54	
13C9-PFNA	75.5		20-150					6/14/23	21:54	
13C6-PFDA	80.4		20-150					6/14/23	21:54	
13C7-PFUnA	78.3		20-150					6/14/23	21:54	
13C2-PFDoA	76.5		20-150					6/14/23	21:54	
13C2-PFTeDA	69.6		20-150					6/14/23	21:54	
13C3-PFBS	53.4		20-150					6/14/23	21:54	
13C3-PFHxS	77.9		20-150					6/14/23	21:54	
13C8-PFOS	75.4		20-150					6/14/23	21:54	
13C2-4:2FTS	103		20-150					6/14/23	21:54	
13C2-6:2FTS	120		20-150					6/14/23	21:54	
13C2-8:2FTS	106		20-150					6/14/23	21:54	
13C8-PFOSA	69.1		20-150					6/14/23	21:54	
D3-NMeFOSA	60.7		20-150					6/14/23	21:54	
D5-NEtFOSA	62.2		20-150					6/14/23	21:54	
D3-NMeFOSAA	71.4		20-150					6/14/23	21:54	
D5-NEtFOSAA	75.7		20-150					6/14/23	21:54	
D7-NMeFOSE	64.9		20-150					6/14/23	21:54	
D9-NEtFOSE	62.4		20-150					6/14/23	21:54	
13C3-HFPO-DA	85.3		20-150					6/14/23	21:54	

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-22

Sampled: 5/23/2023 13:05

Sample ID: 23E3540-09

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1	H-01	Draft Method 1633	5/31/23	5/31/23 13:33	LL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-17

Sampled: 5/23/2023 13:26

Sample ID: 23E3540-10

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	17	3.6	1.3	ng/L	1	PF-18	Draft Method 1633	6/12/23	6/14/23 22:10	AMS
Perfluoropentanoic acid (PFPeA)	ND	1.8	0.31	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
Perfluorohexanoic acid (PFHxA)	2.3	0.90	0.19	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
Perfluoroheptanoic acid (PFHpA)	2.9	0.90	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
Perfluorooctanoic acid (PFOA)	11	0.90	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
Perfluorononanoic acid (PFNA)	1.4	0.90	0.17	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
Perfluorodecanoic acid (PFDA)	1.2	0.90	0.17	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.90	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.90	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.90	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.90	0.22	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
Perfluorobutanesulfonic acid (PFBS)	1.7	0.90	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.90	0.21	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
Perfluorohexanesulfonic acid (PFHxS)	1.2	0.90	0.18	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
Perfluoroheptanesulfonic acid (PFHpS)	3.2	0.90	0.27	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
Perfluorooctanesulfonic acid (PFOS)	320	0.90	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.90	0.26	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.90	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.90	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	0.62	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	0.88	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	0.97	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
Perfluorooctanesulfonamide (PFOSA)	14	0.90	0.27	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.90	0.37	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.90	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
N-MeFOSAA (NMeFOSAA)	1.2	0.90	0.39	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
N-EtFOSAA (NEtFOSAA)	45	0.90	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.0	2.4	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.0	2.2	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	0.94	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.6	0.62	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.6	0.76	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
11Cl-PF3OUDs (F53B Major)	ND	3.6	0.87	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.0	1.6	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	45	9.1	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	45	7.9	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.44	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-17

Sampled: 5/23/2023 13:26

Sample ID: 23E3540-10

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.36	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.78	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:10	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	19.6	*	20-150		PF-18			6/14/23	22:10	
13C5-PFPeA	61.5		20-150					6/14/23	22:10	
13C5-PFHxA	77.2		20-150					6/14/23	22:10	
13C4-PFHpA	76.0		20-150					6/14/23	22:10	
13C8-PFOA	77.2		20-150					6/14/23	22:10	
13C9-PFNA	75.3		20-150					6/14/23	22:10	
13C6-PFDA	80.2		20-150					6/14/23	22:10	
13C7-PFUnA	90.5		20-150					6/14/23	22:10	
13C2-PFDoA	88.2		20-150					6/14/23	22:10	
13C2-PFTeDA	81.1		20-150					6/14/23	22:10	
13C3-PFBS	73.6		20-150					6/14/23	22:10	
13C3-PFHxS	76.2		20-150					6/14/23	22:10	
13C8-PFOS	79.3		20-150					6/14/23	22:10	
13C2-4:2FTS	146		20-150					6/14/23	22:10	
13C2-6:2FTS	130		20-150					6/14/23	22:10	
13C2-8:2FTS	125		20-150					6/14/23	22:10	
13C8-PFOSA	91.2		20-150					6/14/23	22:10	
D3-NMeFOSA	81.2		20-150					6/14/23	22:10	
D5-NEtFOSA	78.9		20-150					6/14/23	22:10	
D3-NMeFOSAA	49.9		20-150					6/14/23	22:10	
D5-NEtFOSAA	25.6		20-150					6/14/23	22:10	
D7-NMeFOSE	91.1		20-150					6/14/23	22:10	
D9-NEtFOSE	82.2		20-150					6/14/23	22:10	
13C3-HFPO-DA	66.0		20-150					6/14/23	22:10	

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-17

Sampled: 5/23/2023 13:26

Sample ID: 23E3540-10

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1	H-01	Draft Method 1633	5/31/23	5/31/23 13:33	LL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-K-3

Sampled: 5/23/2023 14:30

Sample ID: 23E3540-11

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	2.1	3.5	1.3	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 22:57	AMS
Perfluoropentanoic acid (PFPeA)	1.2	1.8	0.31	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 22:57	AMS
Perfluorohexanoic acid (PFHxA)	1.2	0.89	0.19	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
Perfluoroheptanoic acid (PFHpA)	0.98	0.89	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
Perfluorooctanoic acid (PFOA)	8.1	0.89	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
Perfluorononanoic acid (PFNA)	0.49	0.89	0.17	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 22:57	AMS
Perfluorodecanoic acid (PFDA)	ND	0.89	0.16	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.89	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.89	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.89	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.89	0.22	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
Perfluorobutanesulfonic acid (PFBS)	2.1	0.89	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
Perfluoropentanesulfonic acid (PFPeS)	2.2	0.89	0.21	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
Perfluorohexanesulfonic acid (PFHxS)	3.6	0.89	0.18	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
Perfluoroheptanesulfonic acid (PFHpS)	2.8	0.89	0.27	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
Perfluorooctanesulfonic acid (PFOS)	160	0.89	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.89	0.26	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.89	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.89	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.5	0.62	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.5	0.88	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.5	0.96	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
Perfluorooctanesulfonamide (PFOSA)	2.3	0.89	0.27	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.89	0.37	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.89	0.27	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.89	0.39	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.89	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	8.9	2.3	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	8.9	2.2	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.5	0.93	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.5	0.61	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.5	0.76	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
11Cl-PF3OUDs (F53B Major)	ND	3.5	0.86	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	8.9	1.6	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	44	9.1	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	44	7.8	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.43	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.44	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-K-3

Sampled: 5/23/2023 14:30

Sample ID: 23E3540-11

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.36	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.77	ng/L	1		Draft Method 1633	6/12/23	6/14/23 22:57	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	66.5		20-150				6/14/23 22:57			
13C5-PFPeA	76.2		20-150				6/14/23 22:57			
13C5-PFHxA	75.1		20-150				6/14/23 22:57			
13C4-PFHpA	74.1		20-150				6/14/23 22:57			
13C8-PFOA	73.7		20-150				6/14/23 22:57			
13C9-PFNA	73.5		20-150				6/14/23 22:57			
13C6-PFDA	76.7		20-150				6/14/23 22:57			
13C7-PFUnA	70.9		20-150				6/14/23 22:57			
13C2-PFDoA	68.8		20-150				6/14/23 22:57			
13C2-PFTeDA	67.4		20-150				6/14/23 22:57			
13C3-PFBS	76.2		20-150				6/14/23 22:57			
13C3-PFHxS	73.6		20-150				6/14/23 22:57			
13C8-PFOS	69.2		20-150				6/14/23 22:57			
13C2-4:2FTS	77.3		20-150				6/14/23 22:57			
13C2-6:2FTS	73.6		20-150				6/14/23 22:57			
13C2-8:2FTS	68.5		20-150				6/14/23 22:57			
13C8-PFOSA	68.5		20-150				6/14/23 22:57			
D3-NMeFOSA	56.0		20-150				6/14/23 22:57			
D5-NEtFOSA	56.0		20-150				6/14/23 22:57			
D3-NMeFOSAA	65.5		20-150				6/14/23 22:57			
D5-NEtFOSAA	63.7		20-150				6/14/23 22:57			
D7-NMeFOSE	59.8		20-150				6/14/23 22:57			
D9-NEtFOSE	57.9		20-150				6/14/23 22:57			
13C3-HFPO-DA	79.0		20-150				6/14/23 22:57			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-K-3

Sampled: 5/23/2023 14:30

Sample ID: 23E3540-11

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1	H-01	Draft Method 1633	5/31/23	5/31/23 13:33	LL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-15S

Sampled: 5/23/2023 14:33

Sample ID: 23E3540-12

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	1.7	3.6	1.3	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 23:12	AMS
Perfluoropentanoic acid (PFPeA)	ND	1.8	0.31	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
Perfluorohexanoic acid (PFHxA)	1.0	0.91	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
Perfluoroheptanoic acid (PFHpA)	1.3	0.91	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
Perfluorooctanoic acid (PFOA)	5.2	0.91	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
Perfluorononanoic acid (PFNA)	0.68	0.91	0.17	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 23:12	AMS
Perfluorodecanoic acid (PFDA)	0.69	0.91	0.17	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 23:12	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.91	0.25	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.91	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.91	0.25	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.91	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
Perfluorobutanesulfonic acid (PFBS)	1.5	0.91	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
Perfluoropentanesulfonic acid (PFPeS)	0.26	0.91	0.22	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 23:12	AMS
Perfluorohexanesulfonic acid (PFHxS)	0.90	0.91	0.19	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 23:12	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.91	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
Perfluorooctanesulfonic acid (PFOS)	61	0.91	0.29	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.91	0.27	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.91	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.91	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	0.63	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	0.89	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	0.98	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
Perfluorooctanesulfonamide (PFOSA)	0.56	0.91	0.28	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 23:12	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.91	0.38	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.91	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.91	0.40	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
N-EtFOSAA (NEtFOSAA)	4.1	0.91	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.1	2.4	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.1	2.2	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	0.95	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.6	0.62	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.6	0.77	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
11Cl-PF3OUDS (F53B Major)	ND	3.6	0.88	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.1	1.6	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	45	9.3	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	45	8.0	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.44	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-15S

Sampled: 5/23/2023 14:33

Sample ID: 23E3540-12

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.36	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.79	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:12	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	82.0		20-150				6/14/23 23:12			
13C5-PFPeA	75.4		20-150				6/14/23 23:12			
13C5-PFHxA	79.0		20-150				6/14/23 23:12			
13C4-PFHpA	76.7		20-150				6/14/23 23:12			
13C8-PFOA	77.2		20-150				6/14/23 23:12			
13C9-PFNA	77.3		20-150				6/14/23 23:12			
13C6-PFDA	76.2		20-150				6/14/23 23:12			
13C7-PFUnA	75.1		20-150				6/14/23 23:12			
13C2-PFDoA	71.3		20-150				6/14/23 23:12			
13C2-PFTeDA	66.7		20-150				6/14/23 23:12			
13C3-PFBS	78.1		20-150				6/14/23 23:12			
13C3-PFHxS	77.4		20-150				6/14/23 23:12			
13C8-PFOS	79.5		20-150				6/14/23 23:12			
13C2-4:2FTS	105		20-150				6/14/23 23:12			
13C2-6:2FTS	95.1		20-150				6/14/23 23:12			
13C2-8:2FTS	89.7		20-150				6/14/23 23:12			
13C8-PFOSA	69.5		20-150				6/14/23 23:12			
D3-NMeFOSA	60.8		20-150				6/14/23 23:12			
D5-NEtFOSA	59.4		20-150				6/14/23 23:12			
D3-NMeFOSAA	71.5		20-150				6/14/23 23:12			
D5-NEtFOSAA	71.9		20-150				6/14/23 23:12			
D7-NMeFOSE	65.9		20-150				6/14/23 23:12			
D9-NEtFOSE	60.3		20-150				6/14/23 23:12			
13C3-HFPO-DA	77.8		20-150				6/14/23 23:12			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-15S

Sampled: 5/23/2023 14:33

Sample ID: 23E3540-12

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	12	10	mg/L	1	H-01	Draft Method 1633	5/31/23	5/31/23 13:33	LL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-21

Sampled: 5/23/2023 15:43

Sample ID: 23E3540-13

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	3.6	1.3	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
Perfluoropentanoic acid (PFPeA)	ND	1.8	0.31	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
Perfluorohexanoic acid (PFHxA)	3.3	0.91	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
Perfluoroheptanoic acid (PFHpA)	3.4	0.91	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
Perfluorooctanoic acid (PFOA)	19	0.91	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
Perfluorononanoic acid (PFNA)	1.5	0.91	0.17	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
Perfluorodecanoic acid (PFDA)	ND	0.91	0.17	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.91	0.25	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.91	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.91	0.25	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.91	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
Perfluorobutanesulfonic acid (PFBS)	3.8	0.91	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
Perfluoropentanesulfonic acid (PFPeS)	1.1	0.91	0.22	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
Perfluorohexanesulfonic acid (PFHxS)	4.1	0.91	0.19	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
Perfluoroheptanesulfonic acid (PFHpS)	2.1	0.91	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
Perfluorooctanesulfonic acid (PFOS)	190	0.91	0.29	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.91	0.27	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.91	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.91	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	0.63	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	0.89	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	0.98	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
Perfluorooctanesulfonamide (PFOSA)	4.2	0.91	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.91	0.38	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.91	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.91	0.40	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
N-EtFOSAA (NEtFOSAA)	8.4	0.91	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.1	2.4	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.1	2.2	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	0.95	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.6	0.62	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.6	0.77	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
11Cl-PF3OUDs (F53B Major)	ND	3.6	0.88	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.1	1.6	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	45	9.3	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	45	8.0	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.44	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-21

Sampled: 5/23/2023 15:43

Sample ID: 23E3540-13

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.36	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.78	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:28	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	38.0		20-150				6/14/23 23:28			
13C5-PFPeA	71.4		20-150				6/14/23 23:28			
13C5-PFHxA	82.6		20-150				6/14/23 23:28			
13C4-PFHpA	80.0		20-150				6/14/23 23:28			
13C8-PFOA	76.5		20-150				6/14/23 23:28			
13C9-PFNA	81.5		20-150				6/14/23 23:28			
13C6-PFDA	80.9		20-150				6/14/23 23:28			
13C7-PFUnA	79.4		20-150				6/14/23 23:28			
13C2-PFDoA	71.8		20-150				6/14/23 23:28			
13C2-PFTeDA	68.6		20-150				6/14/23 23:28			
13C3-PFBS	82.4		20-150				6/14/23 23:28			
13C3-PFHxS	84.0		20-150				6/14/23 23:28			
13C8-PFOS	78.6		20-150				6/14/23 23:28			
13C2-4:2FTS	142		20-150				6/14/23 23:28			
13C2-6:2FTS	110		20-150				6/14/23 23:28			
13C2-8:2FTS	111		20-150				6/14/23 23:28			
13C8-PFOSA	68.3		20-150				6/14/23 23:28			
D3-NMeFOSA	58.1		20-150				6/14/23 23:28			
D5-NEtFOSA	58.7		20-150				6/14/23 23:28			
D3-NMeFOSAA	56.5		20-150				6/14/23 23:28			
D5-NEtFOSAA	55.6		20-150				6/14/23 23:28			
D7-NMeFOSE	63.7		20-150				6/14/23 23:28			
D9-NEtFOSE	60.3		20-150				6/14/23 23:28			
13C3-HFPO-DA	75.1		20-150				6/14/23 23:28			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-21

Sampled: 5/23/2023 15:43

Sample ID: 23E3540-13

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	12	10	mg/L	1	H-01	Draft Method 1633	5/31/23	5/31/23 13:33	LL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-24

Sampled: 5/23/2023 15:54

Sample ID: 23E3540-14

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	1.9	3.6	1.3	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 23:44	AMS
Perfluoropentanoic acid (PFPeA)	0.87	1.8	0.32	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 23:44	AMS
Perfluorohexanoic acid (PFHxA)	1.2	0.91	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
Perfluoroheptanoic acid (PFHpA)	1.7	0.91	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
Perfluorooctanoic acid (PFOA)	8.8	0.91	0.21	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
Perfluorononanoic acid (PFNA)	1.6	0.91	0.17	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
Perfluorodecanoic acid (PFDA)	0.17	0.91	0.17	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 23:44	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.91	0.25	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.91	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.91	0.25	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.91	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
Perfluorobutanesulfonic acid (PFBS)	1.5	0.91	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
Perfluoropentanesulfonic acid (PFPeS)	0.29	0.91	0.22	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 23:44	AMS
Perfluorohexanesulfonic acid (PFHxS)	0.98	0.91	0.19	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
Perfluoroheptanesulfonic acid (PFHpS)	0.65	0.91	0.28	ng/L	1	J	Draft Method 1633	6/12/23	6/14/23 23:44	AMS
Perfluorooctanesulfonic acid (PFOS)	47	0.91	0.29	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.91	0.27	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.91	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.91	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	0.63	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	0.90	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	0.99	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.91	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.91	0.38	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.91	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.91	0.40	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.91	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.1	2.4	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.1	2.2	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	0.95	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.6	0.62	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.6	0.77	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
11Cl-PF3OUDs (F53B Major)	ND	3.6	0.88	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.1	1.6	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	45	9.3	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	45	8.0	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-24

Sampled: 5/23/2023 15:54

Sample ID: 23E3540-14

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.37	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.79	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:44	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	80.7		20-150				6/14/23 23:44			
13C5-PFPeA	79.2		20-150				6/14/23 23:44			
13C5-PFHxA	78.1		20-150				6/14/23 23:44			
13C4-PFHpA	77.4		20-150				6/14/23 23:44			
13C8-PFOA	77.4		20-150				6/14/23 23:44			
13C9-PFNA	78.6		20-150				6/14/23 23:44			
13C6-PFDA	76.6		20-150				6/14/23 23:44			
13C7-PFUnA	73.9		20-150				6/14/23 23:44			
13C2-PFDoA	72.9		20-150				6/14/23 23:44			
13C2-PFTeDA	68.2		20-150				6/14/23 23:44			
13C3-PFBS	79.5		20-150				6/14/23 23:44			
13C3-PFHxS	76.8		20-150				6/14/23 23:44			
13C8-PFOS	77.0		20-150				6/14/23 23:44			
13C2-4:2FTS	86.0		20-150				6/14/23 23:44			
13C2-6:2FTS	80.2		20-150				6/14/23 23:44			
13C2-8:2FTS	69.7		20-150				6/14/23 23:44			
13C8-PFOSA	72.0		20-150				6/14/23 23:44			
D3-NMeFOSA	61.2		20-150				6/14/23 23:44			
D5-NEtFOSA	60.6		20-150				6/14/23 23:44			
D3-NMeFOSAA	70.7		20-150				6/14/23 23:44			
D5-NEtFOSAA	71.8		20-150				6/14/23 23:44			
D7-NMeFOSE	62.9		20-150				6/14/23 23:44			
D9-NEtFOSE	61.6		20-150				6/14/23 23:44			
13C3-HFPO-DA	81.0		20-150				6/14/23 23:44			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-24

Sampled: 5/23/2023 15:54

Sample ID: 23E3540-14

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1	H-01	Draft Method 1633	5/31/23	5/31/23 13:33	LL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-8S

Sampled: 5/23/2023 16:56

Sample ID: 23E3540-15

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	3.6	1.3	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
Perfluoropentanoic acid (PFPeA)	ND	1.8	0.32	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
Perfluorohexanoic acid (PFHxA)	ND	0.91	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
Perfluoroheptanoic acid (PFHpA)	ND	0.91	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
Perfluorooctanoic acid (PFOA)	ND	0.91	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
Perfluorononanoic acid (PFNA)	ND	0.91	0.17	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
Perfluorodecanoic acid (PFDA)	ND	0.91	0.17	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.91	0.25	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.91	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.91	0.25	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.91	0.23	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
Perfluorobutanesulfonic acid (PFBS)	2.4	0.91	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.91	0.22	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
Perfluorohexanesulfonic acid (PFHxS)	0.97	0.91	0.19	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.91	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
Perfluorooctanesulfonic acid (PFOS)	1.3	0.91	0.29	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.91	0.27	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.91	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.91	0.24	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	0.63	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	0.90	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	0.98	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.91	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.91	0.38	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.91	0.28	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.91	0.40	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.91	0.20	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.1	2.4	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.1	2.2	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	0.95	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.6	0.62	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.6	0.77	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
11Cl-PF3OUDs (F53B Major)	ND	3.6	0.88	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.1	1.6	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	45	9.3	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	45	8.0	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.44	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-8S

Sampled: 5/23/2023 16:56

Sample ID: 23E3540-15

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.36	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.79	ng/L	1		Draft Method 1633	6/12/23	6/14/23 23:59	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	83.8		20-150				6/14/23 23:59			
13C5-PFPeA	81.1		20-150				6/14/23 23:59			
13C5-PFHxA	80.5		20-150				6/14/23 23:59			
13C4-PFHpA	77.4		20-150				6/14/23 23:59			
13C8-PFOA	80.5		20-150				6/14/23 23:59			
13C9-PFNA	81.4		20-150				6/14/23 23:59			
13C6-PFDA	75.1		20-150				6/14/23 23:59			
13C7-PFUnA	71.9		20-150				6/14/23 23:59			
13C2-PFDoA	70.4		20-150				6/14/23 23:59			
13C2-PFTeDA	68.2		20-150				6/14/23 23:59			
13C3-PFBS	82.2		20-150				6/14/23 23:59			
13C3-PFHxS	82.1		20-150				6/14/23 23:59			
13C8-PFOS	72.0		20-150				6/14/23 23:59			
13C2-4:2FTS	87.8		20-150				6/14/23 23:59			
13C2-6:2FTS	78.1		20-150				6/14/23 23:59			
13C2-8:2FTS	68.2		20-150				6/14/23 23:59			
13C8-PFOSA	67.7		20-150				6/14/23 23:59			
D3-NMeFOSA	60.9		20-150				6/14/23 23:59			
D5-NEtFOSA	59.5		20-150				6/14/23 23:59			
D3-NMeFOSAA	67.8		20-150				6/14/23 23:59			
D5-NEtFOSAA	65.5		20-150				6/14/23 23:59			
D7-NMeFOSE	61.7		20-150				6/14/23 23:59			
D9-NEtFOSE	60.1		20-150				6/14/23 23:59			
13C3-HFPO-DA	81.8		20-150				6/14/23 23:59			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-8S

Sampled: 5/23/2023 16:56

Sample ID: 23E3540-15

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1	H-01	Draft Method 1633	5/31/23	5/31/23 13:33	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-DUP-1-GW

Sampled: 5/23/2023 00:00

Sample ID: 23E3540-16

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	1.9	3.6	1.3	ng/L	1	J	Draft Method 1633	6/12/23	6/15/23 0:15	AMS
Perfluoropentanoic acid (PFPeA)	0.89	1.8	0.32	ng/L	1	J	Draft Method 1633	6/12/23	6/15/23 0:15	AMS
Perfluorohexanoic acid (PFHxA)	1.2	0.91	0.20	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
Perfluoroheptanoic acid (PFHpA)	1.5	0.91	0.23	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
Perfluorooctanoic acid (PFOA)	8.9	0.91	0.21	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
Perfluorononanoic acid (PFNA)	1.5	0.91	0.17	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
Perfluorodecanoic acid (PFDA)	ND	0.91	0.17	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.91	0.25	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.91	0.23	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.91	0.25	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.91	0.23	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
Perfluorobutanesulfonic acid (PFBS)	1.7	0.91	0.24	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
Perfluoropentanesulfonic acid (PFPeS)	0.27	0.91	0.22	ng/L	1	J	Draft Method 1633	6/12/23	6/15/23 0:15	AMS
Perfluorohexanesulfonic acid (PFHxS)	1.2	0.91	0.19	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
Perfluoroheptanesulfonic acid (PFHpS)	0.84	0.91	0.28	ng/L	1	J	Draft Method 1633	6/12/23	6/15/23 0:15	AMS
Perfluorooctanesulfonic acid (PFOS)	47	0.91	0.29	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.91	0.27	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.91	0.29	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.91	0.24	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	0.63	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	0.90	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	0.99	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.91	0.28	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.91	0.38	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.91	0.28	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.91	0.40	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.91	0.20	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.1	2.4	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.1	2.2	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	0.95	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.6	0.63	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.6	0.78	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
11Cl-PF3OUDs (F53B Major)	ND	3.6	0.88	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.1	1.6	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	46	9.3	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	46	8.0	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-DUP-1-GW

Sampled: 5/23/2023 00:00

Sample ID: 23E3540-16

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.37	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.79	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:15	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	81.2		20-150				6/15/23 0:15			
13C5-PFPeA	79.4		20-150				6/15/23 0:15			
13C5-PFHxA	79.9		20-150				6/15/23 0:15			
13C4-PFHpA	77.8		20-150				6/15/23 0:15			
13C8-PFOA	83.3		20-150				6/15/23 0:15			
13C9-PFNA	78.6		20-150				6/15/23 0:15			
13C6-PFDA	78.5		20-150				6/15/23 0:15			
13C7-PFUnA	73.8		20-150				6/15/23 0:15			
13C2-PFDoA	71.3		20-150				6/15/23 0:15			
13C2-PFTeDA	66.2		20-150				6/15/23 0:15			
13C3-PFBS	79.9		20-150				6/15/23 0:15			
13C3-PFHxS	80.2		20-150				6/15/23 0:15			
13C8-PFOS	75.8		20-150				6/15/23 0:15			
13C2-4:2FTS	88.6		20-150				6/15/23 0:15			
13C2-6:2FTS	82.0		20-150				6/15/23 0:15			
13C2-8:2FTS	74.1		20-150				6/15/23 0:15			
13C8-PFOSA	71.5		20-150				6/15/23 0:15			
D3-NMeFOSA	59.8		20-150				6/15/23 0:15			
D5-NEtFOSA	61.2		20-150				6/15/23 0:15			
D3-NMeFOSAA	71.0		20-150				6/15/23 0:15			
D5-NEtFOSAA	70.3		20-150				6/15/23 0:15			
D7-NMeFOSE	62.6		20-150				6/15/23 0:15			
D9-NEtFOSE	59.9		20-150				6/15/23 0:15			
13C3-HFPO-DA	79.0		20-150				6/15/23 0:15			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-DUP-1-GW

Sampled: 5/23/2023 00:00

Sample ID: 23E3540-16

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1	H-01	Draft Method 1633	6/1/23	6/1/23 13:35	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-20

Sampled: 5/23/2023 17:16

Sample ID: 23E3540-17

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.1	3.6	1.3	ng/L	1	J	Draft Method 1633	6/12/23	6/15/23 0:31	AMS
Perfluoropentanoic acid (PFPeA)	2.7	1.8	0.31	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
Perfluorohexanoic acid (PFHxA)	2.6	0.90	0.19	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
Perfluoroheptanoic acid (PFHpA)	1.8	0.90	0.23	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
Perfluorooctanoic acid (PFOA)	5.3	0.90	0.20	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
Perfluorononanoic acid (PFNA)	0.60	0.90	0.17	ng/L	1	J	Draft Method 1633	6/12/23	6/15/23 0:31	AMS
Perfluorodecanoic acid (PFDA)	ND	0.90	0.17	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.90	0.25	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.90	0.23	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.90	0.24	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.90	0.23	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
Perfluorobutanesulfonic acid (PFBS)	4.6	0.90	0.23	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.90	0.21	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
Perfluorohexanesulfonic acid (PFHxS)	0.60	0.90	0.19	ng/L	1	J	Draft Method 1633	6/12/23	6/15/23 0:31	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.90	0.28	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
Perfluorooctanesulfonic acid (PFOS)	5.5	0.90	0.29	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.90	0.27	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.90	0.28	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.90	0.24	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	0.63	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	0.89	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	0.98	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.90	0.28	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.90	0.37	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.90	0.28	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.90	0.40	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.90	0.20	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.0	2.4	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.0	2.2	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	0.94	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.6	0.62	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.6	0.77	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
11Cl-PF3OUDS (F53B Major)	ND	3.6	0.87	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.0	1.6	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	45	9.2	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	45	8.0	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.44	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-MW-20

Sampled: 5/23/2023 17:16

Sample ID: 23E3540-17

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.36	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.78	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:31	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	71.4		20-150				6/15/23 0:31			
13C5-PFPeA	78.2		20-150				6/15/23 0:31			
13C5-PFHxA	79.0		20-150				6/15/23 0:31			
13C4-PFHpA	76.0		20-150				6/15/23 0:31			
13C8-PFOA	76.6		20-150				6/15/23 0:31			
13C9-PFNA	77.4		20-150				6/15/23 0:31			
13C6-PFDA	75.2		20-150				6/15/23 0:31			
13C7-PFUnA	73.9		20-150				6/15/23 0:31			
13C2-PFDoA	69.8		20-150				6/15/23 0:31			
13C2-PFTeDA	66.1		20-150				6/15/23 0:31			
13C3-PFBS	78.3		20-150				6/15/23 0:31			
13C3-PFHxS	76.6		20-150				6/15/23 0:31			
13C8-PFOS	73.4		20-150				6/15/23 0:31			
13C2-4:2FTS	81.1		20-150				6/15/23 0:31			
13C2-6:2FTS	74.8		20-150				6/15/23 0:31			
13C2-8:2FTS	65.5		20-150				6/15/23 0:31			
13C8-PFOA	69.7		20-150				6/15/23 0:31			
D3-NMeFOSA	59.3		20-150				6/15/23 0:31			
D5-NEtFOSA	60.6		20-150				6/15/23 0:31			
D3-NMeFOSAA	67.7		20-150				6/15/23 0:31			
D5-NEtFOSAA	68.3		20-150				6/15/23 0:31			
D7-NMeFOSE	60.7		20-150				6/15/23 0:31			
D9-NEtFOSE	59.2		20-150				6/15/23 0:31			
13C3-HFPO-DA	81.8		20-150				6/15/23 0:31			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY	Sample Description:	Work Order: 23E3540
Date Received: 5/25/2023		
Field Sample #: 518014-MW-20	Sampled: 5/23/2023 17:16	
Sample ID: 23E3540-17		
Sample Matrix: Ground Water		

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)									
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1	H-01	Draft Method 1633	5/31/23	5/31/23 13:33	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-FB-052323

Sampled: 5/23/2023 17:25

Sample ID: 23E3540-18

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	3.6	1.3	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
Perfluoropentanoic acid (PFPeA)	ND	1.8	0.31	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
Perfluorohexanoic acid (PFHxA)	ND	0.90	0.19	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
Perfluoroheptanoic acid (PFHpA)	ND	0.90	0.23	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
Perfluorooctanoic acid (PFOA)	ND	0.90	0.20	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
Perfluorononanoic acid (PFNA)	ND	0.90	0.17	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
Perfluorodecanoic acid (PFDA)	ND	0.90	0.17	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.90	0.25	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.90	0.23	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.90	0.24	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.90	0.22	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	0.90	0.23	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.90	0.21	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	0.90	0.18	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.90	0.27	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	0.90	0.29	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.90	0.26	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.90	0.28	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.90	0.24	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	0.63	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	0.89	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	0.97	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.90	0.28	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.90	0.37	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.90	0.28	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.90	0.40	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.90	0.20	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.0	2.4	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.0	2.2	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	0.94	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.6	0.62	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.6	0.76	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
11Cl-PF3OUDS (F53B Major)	ND	3.6	0.87	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.0	1.6	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	45	9.2	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	45	7.9	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.44	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-FB-052323

Sampled: 5/23/2023 17:25

Sample ID: 23E3540-18

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.36	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.78	ng/L	1		Draft Method 1633	6/12/23	6/15/23 0:47	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	80.7		20-150				6/15/23 0:47			
13C5-PFPeA	80.3		20-150				6/15/23 0:47			
13C5-PFHxA	78.8		20-150				6/15/23 0:47			
13C4-PFHpA	79.5		20-150				6/15/23 0:47			
13C8-PFOA	78.4		20-150				6/15/23 0:47			
13C9-PFNA	77.2		20-150				6/15/23 0:47			
13C6-PFDA	75.0		20-150				6/15/23 0:47			
13C7-PFUnA	74.8		20-150				6/15/23 0:47			
13C2-PFDoA	70.5		20-150				6/15/23 0:47			
13C2-PFTeDA	71.1		20-150				6/15/23 0:47			
13C3-PFBS	75.7		20-150				6/15/23 0:47			
13C3-PFHxS	76.7		20-150				6/15/23 0:47			
13C8-PFOS	74.6		20-150				6/15/23 0:47			
13C2-4:2FTS	67.9		20-150				6/15/23 0:47			
13C2-6:2FTS	70.1		20-150				6/15/23 0:47			
13C2-8:2FTS	69.9		20-150				6/15/23 0:47			
13C8-PFOSA	73.3		20-150				6/15/23 0:47			
D3-NMeFOSA	65.6		20-150				6/15/23 0:47			
D5-NEtFOSA	67.2		20-150				6/15/23 0:47			
D3-NMeFOSAA	75.5		20-150				6/15/23 0:47			
D5-NEtFOSAA	73.9		20-150				6/15/23 0:47			
D7-NMeFOSE	71.4		20-150				6/15/23 0:47			
D9-NEtFOSE	69.3		20-150				6/15/23 0:47			
13C3-HFPO-DA	83.1		20-150				6/15/23 0:47			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3540

Date Received: 5/25/2023

Field Sample #: 518014-FB-052323

Sampled: 5/23/2023 17:25

Sample ID: 23E3540-18

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	5/26/23	5/26/23 11:41	LL

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Sample Extraction Data

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
23E3540-18 [518014-FB-052323]	B341531	50.0	05/26/23

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
23E3540-09 [518014-MW-22]	B341784	50.0	05/31/23
23E3540-10 [518014-MW-17]	B341784	50.0	05/31/23
23E3540-11 [518014-K-3]	B341784	50.0	05/31/23
23E3540-12 [518014-MW-15S]	B341784	50.0	05/31/23
23E3540-13 [518014-MW-21]	B341784	50.0	05/31/23
23E3540-14 [518014-MW-24]	B341784	50.0	05/31/23
23E3540-15 [518014-MW-8S]	B341784	50.0	05/31/23
23E3540-17 [518014-MW-20]	B341784	50.0	05/31/23

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
23E3540-01 [518014-MW-23]	B341918	50.0	06/01/23
23E3540-02 [518014-ASW]	B341918	50.0	06/01/23
23E3540-03 [518014-VEW-2]	B341918	50.0	06/01/23
23E3540-04 [518014-VEW-3]	B341918	50.0	06/01/23
23E3540-05 [518014-VEW-4]	B341918	50.0	06/01/23
23E3540-06 [518014-VEW-1]	B341918	50.0	06/01/23
23E3540-07 [518014-K-2]	B341918	50.0	06/01/23
23E3540-08 [518014-MW-18]	B341918	50.0	06/01/23
23E3540-16 [518014-DUP-1-GW]	B341918	50.0	06/01/23

Prep Method:Draft Method 1633

Analytical Method:Draft Method 1633

Leachates were extracted on 6/1/2023 per NO PREP in Batch B341918

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E3540-01 [518014-MW-23]	B342300	529	5.00	06/12/23
23E3540-02 [518014-ASW]	B342300	576	5.00	06/12/23
23E3540-03 [518014-VEW-2]	B342300	551	5.00	06/12/23
23E3540-04 [518014-VEW-3]	B342300	541	5.00	06/12/23
23E3540-04RE1 [518014-VEW-3]	B342300	541	5.00	06/12/23
23E3540-05 [518014-VEW-4]	B342300	546	5.00	06/12/23
23E3540-06 [518014-VEW-1]	B342300	557	5.00	06/12/23
23E3540-07 [518014-K-2]	B342300	556	5.00	06/12/23
23E3540-07RE1 [518014-K-2]	B342300	556	5.00	06/12/23
23E3540-08 [518014-MW-18]	B342300	548	5.00	06/12/23
23E3540-09 [518014-MW-22]	B342300	573	5.00	06/12/23
23E3540-10 [518014-MW-17]	B342300	558	5.00	06/12/23
23E3540-11 [518014-K-3]	B342300	564	5.00	06/12/23
23E3540-12 [518014-MW-15S]	B342300	551	5.00	06/12/23
23E3540-13 [518014-MW-21]	B342300	552	5.00	06/12/23
23E3540-14 [518014-MW-24]	B342300	550	5.00	06/12/23
23E3540-15 [518014-MW-8S]	B342300	551	5.00	06/12/23
23E3540-16 [518014-DUP-1-GW]	B342300	549	5.00	06/12/23
23E3540-17 [518014-MW-20]	B342300	554	5.00	06/12/23
23E3540-18 [518014-FB-052323]	B342300	557	5.00	06/12/23

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342300 - Draft Method 1633										
Blank (B342300-BLK1)										
				Prepared: 06/12/23 Analyzed: 06/14/23						
Perfluorobutanoic acid (PFBA)	ND	3.9	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	0.99	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	0.99	ng/L							
Perfluorooctanoic acid (PFOA)	ND	0.99	ng/L							
Perfluorononanoic acid (PFNA)	ND	0.99	ng/L							
Perfluorodecanoic acid (PFDA)	ND	0.99	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	0.99	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	0.99	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	0.99	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.99	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	0.99	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.99	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.99	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.99	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	0.99	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	0.99	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	0.99	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.99	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	0.99	ng/L							
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.99	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.99	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	0.99	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	0.99	ng/L							
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.9	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.9	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.9	ng/L							
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.9	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	3.9	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	3.9	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.9	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	49	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	49	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	2.0	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Surrogate: 13C4-PFBA	77.2		ng/L	98.7		78.2	20-150			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342300 - Draft Method 1633
Blank (B342300-BLK1)

Prepared: 06/12/23 Analyzed: 06/14/23

Surrogate: 13C5-PFPeA	37.1		ng/L	49.3		75.2	20-150			
Surrogate: 13C5-PFHxA	18.8		ng/L	24.7		76.2	20-150			
Surrogate: 13C4-PFHpA	18.1		ng/L	24.7		73.2	20-150			
Surrogate: 13C8-PFOA	18.5		ng/L	24.7		75.0	20-150			
Surrogate: 13C9-PFNA	9.20		ng/L	12.3		74.6	20-150			
Surrogate: 13C6-PFDA	9.26		ng/L	12.3		75.0	20-150			
Surrogate: 13C7-PFUnA	9.10		ng/L	12.3		73.7	20-150			
Surrogate: 13C2-PFDoA	8.92		ng/L	12.3		72.3	20-150			
Surrogate: 13C2-PFTeDA	8.78		ng/L	12.3		71.2	20-150			
Surrogate: 13C3-PFBS	19.9		ng/L	24.7		80.7	20-150			
Surrogate: 13C3-PFHxS	18.8		ng/L	24.7		76.3	20-150			
Surrogate: 13C8-PFOS	18.7		ng/L	24.7		75.8	20-150			
Surrogate: 13C2-4:2FTS	34.0		ng/L	49.3		68.9	20-150			
Surrogate: 13C2-6:2FTS	36.1		ng/L	49.3		73.1	20-150			
Surrogate: 13C2-8:2FTS	35.1		ng/L	49.3		71.2	20-150			
Surrogate: 13C8-PFOA	17.4		ng/L	24.7		70.7	20-150			
Surrogate: D3-NMeFOSA	15.6		ng/L	24.7		63.4	20-150			
Surrogate: D5-NEtFOSA	15.8		ng/L	24.7		64.0	20-150			
Surrogate: D3-NMeFOSAA	36.0		ng/L	49.3		72.9	20-150			
Surrogate: D5-NEtFOSAA	35.2		ng/L	49.3		71.4	20-150			
Surrogate: D7-NMeFOSE	168		ng/L	247		67.9	20-150			
Surrogate: D9-NEtFOSE	165		ng/L	247		66.7	20-150			
Surrogate: 13C3-HFPO-DA	77.8		ng/L	98.7		78.8	20-150			

LCS (B342300-BS1)

Prepared: 06/12/23 Analyzed: 06/14/23

Perfluorobutanoic acid (PFBA)	104	3.9	ng/L	94.7		110	58-148			
Perfluoropentanoic acid (PFPeA)	52.7	2.0	ng/L	47.4		111	54-152			
Perfluorohexanoic acid (PFHxA)	26.3	0.99	ng/L	23.7		111	55-152			
Perfluoroheptanoic acid (PFHpA)	25.8	0.99	ng/L	23.7		109	54-154			
Perfluorooctanoic acid (PFOA)	25.5	0.99	ng/L	23.7		108	52-161			
Perfluorononanoic acid (PFNA)	25.6	0.99	ng/L	23.7		108	59-149			
Perfluorodecanoic acid (PFDA)	25.5	0.99	ng/L	23.7		108	52-147			
Perfluoroundecanoic acid (PFUnA)	26.4	0.99	ng/L	23.7		111	48-159			
Perfluorododecanoic acid (PFDoA)	25.6	0.99	ng/L	23.7		108	64-142			
Perfluorotridecanoic acid (PFTTrDA)	25.0	0.99	ng/L	23.7		106	49-148			
Perfluorotetradecanoic acid (PFTeDA)	26.4	0.99	ng/L	23.7		111	47-161			
Perfluorobutanesulfonic acid (PFBS)	23.3	0.99	ng/L	21.0		111	62-144			
Perfluoropentanesulfonic acid (PFPeS)	24.3	0.99	ng/L	22.3		109	59-151			
Perfluorohexanesulfonic acid (PFHxS)	23.2	0.99	ng/L	21.7		107	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	24.6	0.99	ng/L	22.6		109	55-152			
Perfluorooctanesulfonic acid (PFOS)	22.9	0.99	ng/L	22.0		104	58-149			
Perfluorononanesulfonic acid (PFNS)	23.9	0.99	ng/L	22.8		105	52-148			
Perfluorodecanesulfonic acid (PFDS)	23.2	0.99	ng/L	22.9		101	51-147			
Perfluorododecanesulfonic acid (PFDoS)	23.9	0.99	ng/L	23.0		104	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	99.6	3.9	ng/L	88.8		112	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	103	3.9	ng/L	90.0		114	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	104	3.9	ng/L	91.2		114	63-152			
Perfluorooctanesulfonamide (PFOSA)	25.6	0.99	ng/L	23.7		108	61-148			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	24.9	0.99	ng/L	23.7		105	63-145			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342300 - Draft Method 1633
LCS (B342300-BS1)

Prepared: 06/12/23 Analyzed: 06/14/23

N-ethyl perfluorooctanesulfonamide (NEtFOSA)	25.4	0.99	ng/L	23.7		107	65-139			
N-MeFOSAA (NMeFOSAA)	24.7	0.99	ng/L	23.7		104	58-144			
N-EtFOSAA (NEtFOSAA)	26.0	0.99	ng/L	23.7		110	59-146			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	262	9.9	ng/L	237		111	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	262	9.9	ng/L	237		111	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	106	3.9	ng/L	94.7		112	63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	94.4	3.9	ng/L	89.4		106	68-146			
9Cl-PF3ONS (F53B Minor)	91.0	3.9	ng/L	88.8		102	56-156			
11Cl-PF3OUDS (F53B Major)	92.8	3.9	ng/L	89.4		104	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	234	9.9	ng/L	237		98.8	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1220	49	ng/L	1180		103	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1160	49	ng/L	1180		98.1	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	44.7	2.0	ng/L	42.2		106	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	50.3	2.0	ng/L	47.4		106	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	50.6	2.0	ng/L	47.4		107	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	53.1	2.0	ng/L	47.4		112	48-161			
Surrogate: 13C4-PFBA	72.2		ng/L	98.7		73.2	10-130			
Surrogate: 13C5-PFPeA	35.6		ng/L	49.3		72.2	35-150			
Surrogate: 13C5-PFHxA	17.6		ng/L	24.7		71.4	55-150			
Surrogate: 13C4-PFHpA	17.4		ng/L	24.7		70.7	55-150			
Surrogate: 13C8-PFOA	17.2		ng/L	24.7		69.6	60-140			
Surrogate: 13C9-PFNA	8.81		ng/L	12.3		71.4	55-140			
Surrogate: 13C6-PFDA	9.08		ng/L	12.3		73.6	50-140			
Surrogate: 13C7-PFUnA	8.51		ng/L	12.3		69.0	30-140			
Surrogate: 13C2-PFDoA	8.76		ng/L	12.3		71.0	10-150			
Surrogate: 13C2-PFTeDA	8.53		ng/L	12.3		69.2	10-130			
Surrogate: 13C3-PFBS	17.6		ng/L	24.7		71.2	55-150			
Surrogate: 13C3-PFHxS	17.5		ng/L	24.7		70.9	55-150			
Surrogate: 13C8-PFOS	17.8		ng/L	24.7		71.9	45-140			
Surrogate: 13C2-4:2FTS	33.5		ng/L	49.3		67.8	60-200			
Surrogate: 13C2-6:2FTS	35.1		ng/L	49.3		71.2	60-200			
Surrogate: 13C2-8:2FTS	34.8		ng/L	49.3		70.6	50-200			
Surrogate: 13C8-PFOSA	16.5		ng/L	24.7		66.7	30-130			
Surrogate: D3-NMeFOSA	15.0		ng/L	24.7		60.6	15-130			
Surrogate: D5-NEtFOSA	15.2		ng/L	24.7		61.4	10-130			
Surrogate: D3-NMeFOSAA	34.5		ng/L	49.3		70.0	45-200			
Surrogate: D5-NEtFOSAA	33.7		ng/L	49.3		68.4	10-200			
Surrogate: D7-NMeFOSE	158		ng/L	247		64.2	10-150			
Surrogate: D9-NEtFOSE	156		ng/L	247		63.1	10-150			
Surrogate: 13C3-HFPO-DA	73.7		ng/L	98.7		74.7	25-160			

MRL Check (B342300-MRL1)

Prepared: 06/12/23 Analyzed: 06/14/23

Perfluorobutanoic acid (PFBA)	8.70	3.9	ng/L	7.80		112	44-157			
Perfluoropentanoic acid (PFPeA)	4.19	2.0	ng/L	3.90		107	57-148			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342300 - Draft Method 1633
MRL Check (B342300-MRL1)

Prepared: 06/12/23 Analyzed: 06/14/23

Perfluorohexanoic acid (PFHxA)	2.10	0.98	ng/L	1.95		108	62-149			
Perfluoroheptanoic acid (PFHpA)	1.97	0.98	ng/L	1.95		101	56-150			
Perfluorooctanoic acid (PFOA)	2.12	0.98	ng/L	1.95		109	57-161			
Perfluorononanoic acid (PFNA)	2.01	0.98	ng/L	1.95		103	53-157			
Perfluorodecanoic acid (PFDA)	1.85	0.98	ng/L	1.95		95.1	43-158			
Perfluoroundecanoic acid (PFUnA)	1.87	0.98	ng/L	1.95		96.0	50-155			
Perfluorododecanoic acid (PFDoA)	2.03	0.98	ng/L	1.95		104	60-141			
Perfluorotridecanoic acid (PFTrDA)	2.11	0.98	ng/L	1.95		108	52-140			
Perfluorotetradecanoic acid (PFTeDA)	2.11	0.98	ng/L	1.95		108	52-156			
Perfluorobutanesulfonic acid (PFBS)	1.86	0.98	ng/L	1.73		108	63-145			
Perfluoropentanesulfonic acid (PFPeS)	1.93	0.98	ng/L	1.83		105	58-144			
Perfluorohexanesulfonic acid (PFHxS)	1.85	0.98	ng/L	1.78		104	44-158			
Perfluoroheptanesulfonic acid (PFHpS)	1.86	0.98	ng/L	1.86		99.9	51-150			
Perfluorooctanesulfonic acid (PFOS)	2.09	0.98	ng/L	1.81		115	43-162			
Perfluorononanesulfonic acid (PFNS)	2.01	0.98	ng/L	1.88		107	46-151			
Perfluorodecanesulfonic acid (PFDS)	1.82	0.98	ng/L	1.88		96.8	50-144			
Perfluorododecanesulfonic acid (PFDoS)	1.88	0.98	ng/L	1.89		99.2	30-138			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	7.83	3.9	ng/L	7.31		107	52-158			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.04	3.9	ng/L	7.41		108	48-158			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	7.92	3.9	ng/L	7.51		105	46-165			
Perfluorooctanesulfonamide (PFOSA)	2.08	0.98	ng/L	1.95		106	47-163			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	1.84	0.98	ng/L	1.95		94.4	54-155			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.06	0.98	ng/L	1.95		106	49-156			
N-MeFOSAA (NMeFOSAA)	1.99	0.98	ng/L	1.95		102	32-160			
N-EtFOSAA (NEtFOSAA)	1.85	0.98	ng/L	1.95		94.9	51-154			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	20.2	9.8	ng/L	19.5		103	56-151			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	20.4	9.8	ng/L	19.5		105	60-147			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.66	3.9	ng/L	7.80		98.2	58-154			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6.99	3.9	ng/L	7.36		94.9	61-148			
9Cl-PF3ONS (F53B Minor)	6.74	3.9	ng/L	7.31		92.1	44-167			
11Cl-PF3OUDS (F53B Major)	6.86	3.9	ng/L	7.36		93.2	36-158			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	18.7	9.8	ng/L	19.5		95.7	32-161			
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	91.1	49	ng/L	97.5		93.4	39-156			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	85.2	49	ng/L	97.5		87.4	36-149			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.47	2.0	ng/L	3.47		99.8	56-144			
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.07	2.0	ng/L	3.90		104	48-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.13	2.0	ng/L	3.90		106	49-154			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.44	2.0	ng/L	3.90		114	47-160			
Surrogate: 13C4-PFBA	68.9		ng/L	97.5		70.6	10-130			
Surrogate: 13C5-PFPeA	33.6		ng/L	48.8		69.0	35-150			
Surrogate: 13C5-PFHxA	17.0		ng/L	24.4		69.8	55-150			

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QUALITY CONTROL
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342300 - Draft Method 1633
MRL Check (B342300-MRL1)

Prepared: 06/12/23 Analyzed: 06/14/23

Surrogate: 13C4-PFHpA	16.8		ng/L	24.4		69.0	55-150			
Surrogate: 13C8-PFOA	16.8		ng/L	24.4		69.1	60-140			
Surrogate: 13C9-PFNA	8.25		ng/L	12.2		67.7	55-140			
Surrogate: 13C6-PFDA	8.59		ng/L	12.2		70.5	50-140			
Surrogate: 13C7-PFUnA	8.19		ng/L	12.2		67.2	30-140			
Surrogate: 13C2-PFDoA	7.82		ng/L	12.2		64.2	10-150			
Surrogate: 13C2-PFTeDA	7.82		ng/L	12.2		64.1	10-130			
Surrogate: 13C3-PFBS	17.0		ng/L	24.4		69.8	55-150			
Surrogate: 13C3-PFHxS	16.6		ng/L	24.4		68.2	55-150			
Surrogate: 13C8-PFOS	16.5		ng/L	24.4		67.7	45-140			
Surrogate: 13C2-4:2FTS	29.9		ng/L	48.8		61.4	60-200			
Surrogate: 13C2-6:2FTS	30.8		ng/L	48.8		63.2	60-200			
Surrogate: 13C2-8:2FTS	30.3		ng/L	48.8		62.2	50-200			
Surrogate: 13C8-PFOSA	15.2		ng/L	24.4		62.2	30-130			
Surrogate: D3-NMeFOSA	14.3		ng/L	24.4		58.5	15-130			
Surrogate: D5-NEtFOSA	14.3		ng/L	24.4		58.8	10-130			
Surrogate: D3-NMeFOSAA	31.8		ng/L	48.8		65.2	45-200			
Surrogate: D5-NEtFOSAA	31.6		ng/L	48.8		64.8	10-200			
Surrogate: D7-NMeFOSE	150		ng/L	244		61.5	10-150			
Surrogate: D9-NEtFOSE	147		ng/L	244		60.4	10-150			
Surrogate: 13C3-HFPO-DA	70.0		ng/L	97.5		71.8	25-160			

Matrix Spike (B342300-MS1)
Source: 23E3540-09

Prepared: 06/12/23 Analyzed: 06/14/23

Perfluorobutanoic acid (PFBA)	107	3.6	ng/L	85.6	33.4	86.3	40-150			PF-18
Perfluoropentanoic acid (PFPeA)	44.0	1.8	ng/L	42.8	ND	103	40-150			
Perfluorohexanoic acid (PFHxA)	28.4	0.89	ng/L	21.4	7.26	98.8	40-150			
Perfluoroheptanoic acid (PFHpA)	29.9	0.89	ng/L	21.4	8.57	99.6	40-150			
Perfluorooctanoic acid (PFOA)	101	0.89	ng/L	21.4	76.2	116	40-150			
Perfluorononanoic acid (PFNA)	52.6	0.89	ng/L	21.4	29.5	108	40-150			
Perfluorodecanoic acid (PFDA)	36.7	0.89	ng/L	21.4	13.9	106	40-150			
Perfluoroundecanoic acid (PFUnA)	21.8	0.89	ng/L	21.4	ND	102	40-150			
Perfluorododecanoic acid (PFDoA)	21.6	0.89	ng/L	21.4	ND	101	40-150			
Perfluorotridecanoic acid (PFTrDA)	21.0	0.89	ng/L	21.4	ND	98.3	40-150			
Perfluorotetradecanoic acid (PFTeDA)	22.0	0.89	ng/L	21.4	ND	103	40-150			
Perfluorobutanesulfonic acid (PFBS)	26.5	0.89	ng/L	19.0	6.19	107	40-150			
Perfluoropentanesulfonic acid (PFPeS)	23.1	0.89	ng/L	20.1	4.18	94.2	40-150			
Perfluorohexanesulfonic acid (PFHxS)	37.3	0.89	ng/L	19.6	19.2	92.4	40-150			
Perfluoroheptanesulfonic acid (PFHpS)	27.8	0.89	ng/L	20.4	6.30	106	40-150			
Perfluorooctanesulfonic acid (PFOS)	307	0.89	ng/L	19.8	280	134	40-150			
Perfluorononanesulfonic acid (PFNS)	20.5	0.89	ng/L	20.6	ND	99.6	40-150			
Perfluorodecanesulfonic acid (PFDS)	19.8	0.89	ng/L	20.6	ND	95.7	40-150			
Perfluorododecanesulfonic acid (PFDoS)	19.0	0.89	ng/L	20.7	ND	91.5	40-150			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	99.5	3.6	ng/L	80.2	ND	124	40-150			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	89.2	3.6	ng/L	81.3	ND	110	40-150			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	90.6	3.6	ng/L	82.4	ND	110	40-150			
Perfluorooctanesulfonamide (PFOSA)	22.4	0.89	ng/L	21.4	1.18	99.1	40-150			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	22.5	0.89	ng/L	21.4	ND	105	40-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	21.8	0.89	ng/L	21.4	ND	102	40-150			
N-MeFOSAA (NMeFOSAA)	22.0	0.89	ng/L	21.4	ND	103	40-150			

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QUALITY CONTROL
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342300 - Draft Method 1633										
Matrix Spike (B342300-MS1)	Source: 23E3540-09			Prepared: 06/12/23 Analyzed: 06/14/23						
N-EtFOSAA (NEtFOSAA)	21.1	0.89	ng/L	21.4	0.236	97.7	40-150			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	222	8.9	ng/L	214	ND	104	40-150			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	221	8.9	ng/L	214	ND	103	40-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	95.0	3.6	ng/L	85.6	ND	111	40-150			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	125	3.6	ng/L	80.7	ND	154 *	40-150			MS-22
9Cl-PF3ONS (F53B Minor)	141	3.6	ng/L	80.2	ND	176 *	40-150			MS-12
11Cl-PF3OUds (F53B Major)	144	3.6	ng/L	80.7	ND	178 *	40-150			MS-12
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	138	8.9	ng/L	214	ND	64.6	40-150			
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA) (5:3FTCA)	3330	45	ng/L	1070	ND	311 *	40-150			MS-12
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	2430	45	ng/L	1070	ND	228 *	40-150			MS-12
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	61.5	1.8	ng/L	38.1	ND	162 *	40-150			MS-12
Perfluoro-3-methoxypropanoic acid (PFMPA)	27.5	1.8	ng/L	42.8	ND	64.4	40-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	51.0	1.8	ng/L	42.8	ND	119	40-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	25.5	1.8	ng/L	42.8	ND	59.7	40-150			
Surrogate: 13C4-PFBA	5.23		ng/L	89.1		5.87 *	20-150			PF-18
Surrogate: 13C5-PFPeA	8.95		ng/L	44.6		20.1	20-150			
Surrogate: 13C5-PFHxA	14.5		ng/L	22.3		64.9	20-150			
Surrogate: 13C4-PFHpA	24.2		ng/L	22.3		109	20-150			
Surrogate: 13C8-PFOA	15.8		ng/L	22.3		70.9	20-150			
Surrogate: 13C9-PFNA	8.04		ng/L	11.1		72.2	20-150			
Surrogate: 13C6-PFDA	8.15		ng/L	11.1		73.1	20-150			
Surrogate: 13C7-PFUnA	8.29		ng/L	11.1		74.4	20-150			
Surrogate: 13C2-PFDoA	8.26		ng/L	11.1		74.1	20-150			
Surrogate: 13C2-PFTeDA	7.81		ng/L	11.1		70.1	20-150			
Surrogate: 13C3-PFBS	10.9		ng/L	22.3		48.9	20-150			
Surrogate: 13C3-PFHxS	16.5		ng/L	22.3		74.0	20-150			
Surrogate: 13C8-PFOS	16.4		ng/L	22.3		73.8	20-150			
Surrogate: 13C2-4:2FTS	45.1		ng/L	44.6		101	20-150			
Surrogate: 13C2-6:2FTS	55.5		ng/L	44.6		125	20-150			
Surrogate: 13C2-8:2FTS	45.8		ng/L	44.6		103	20-150			
Surrogate: 13C8-PFOA	14.7		ng/L	22.3		66.2	20-150			
Surrogate: D3-NMeFOSA	13.2		ng/L	22.3		59.2	20-150			
Surrogate: D5-NEtFOSA	13.4		ng/L	22.3		60.0	20-150			
Surrogate: D3-NMeFOSAA	30.9		ng/L	44.6		69.3	20-150			
Surrogate: D5-NEtFOSAA	32.2		ng/L	44.6		72.3	20-150			
Surrogate: D7-NMeFOSE	143		ng/L	223		64.0	20-150			
Surrogate: D9-NEtFOSE	136		ng/L	223		61.3	20-150			
Surrogate: 13C3-HFPO-DA	63.4		ng/L	89.1		71.2	20-150			
Matrix Spike Dup (B342300-MSD1)	Source: 23E3540-09			Prepared: 06/12/23 Analyzed: 06/14/23						
Perfluorobutanoic acid (PFBA)	78.9	3.6	ng/L	87.4	33.4	52.0	40-150	30.5 *	30	PF-18, R-06
Perfluoropentanoic acid (PFPeA)	82.2	1.8	ng/L	43.7	ND	188 *	40-150	60.4 *	30	MS-23
Perfluorohexanoic acid (PFHxA)	28.6	0.91	ng/L	21.9	7.26	97.5	40-150	0.630	30	
Perfluoroheptanoic acid (PFHpA)	31.1	0.91	ng/L	21.9	8.57	103	40-150	4.02	30	
Perfluorooctanoic acid (PFOA)	88.3	0.91	ng/L	21.9	76.2	55.5	40-150	13.5	30	

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QUALITY CONTROL
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342300 - Draft Method 1633										
Matrix Spike Dup (B342300-MSD1)	Source: 23E3540-09			Prepared: 06/12/23 Analyzed: 06/14/23						
Perfluorononanoic acid (PFNA)	47.5	0.91	ng/L	21.9	29.5	82.3	40-150	10.2	30	
Perfluorodecanoic acid (PFDA)	36.1	0.91	ng/L	21.9	13.9	101	40-150	1.56	30	
Perfluoroundecanoic acid (PFUnA)	23.8	0.91	ng/L	21.9	ND	109	40-150	8.80	30	
Perfluorododecanoic acid (PFDoA)	23.4	0.91	ng/L	21.9	ND	107	40-150	8.00	30	
Perfluorotridecanoic acid (PFTTrDA)	22.5	0.91	ng/L	21.9	ND	103	40-150	6.67	30	
Perfluorotetradecanoic acid (PFTeDA)	23.4	0.91	ng/L	21.9	ND	107	40-150	6.38	30	
Perfluorobutanesulfonic acid (PFBS)	25.9	0.91	ng/L	19.4	6.19	102	40-150	2.24	30	
Perfluoropentanesulfonic acid (PFPeS)	24.0	0.91	ng/L	20.5	4.18	96.5	40-150	3.75	30	
Perfluorohexanesulfonic acid (PFHxS)	36.9	0.91	ng/L	20.0	19.2	88.4	40-150	1.10	30	
Perfluoroheptanesulfonic acid (PFHpS)	27.3	0.91	ng/L	20.8	6.30	101	40-150	1.98	30	
Perfluorooctanesulfonic acid (PFOS)	249	0.91	ng/L	20.3	280	-156 *	40-150	21.0	30	MS-19
Perfluorononanesulfonic acid (PFNS)	22.3	0.91	ng/L	21.0	ND	106	40-150	8.54	30	
Perfluorodecanesulfonic acid (PFDS)	21.9	0.91	ng/L	21.1	ND	104	40-150	10.5	30	
Perfluorododecanesulfonic acid (PFDoS)	20.2	0.91	ng/L	21.2	ND	95.1	40-150	5.97	30	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	91.9	3.6	ng/L	82.0	ND	112	40-150	7.90	30	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	87.1	3.6	ng/L	83.0	ND	105	40-150	2.46	30	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	92.7	3.6	ng/L	84.1	ND	110	40-150	2.22	30	
Perfluorooctanesulfonamide (PFOSA)	23.7	0.91	ng/L	21.9	1.18	103	40-150	5.76	30	
N-methyl perfluorooctanesulfonamide (NMeFOSA)	23.6	0.91	ng/L	21.9	ND	108	40-150	4.83	30	
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	23.2	0.91	ng/L	21.9	ND	106	40-150	6.47	30	
N-MeFOSAA (NMeFOSAA)	23.0	0.91	ng/L	21.9	ND	105	40-150	4.35	30	
N-EtFOSAA (NEtFOSAA)	24.1	0.91	ng/L	21.9	0.236	109	40-150	13.2	30	
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	237	9.1	ng/L	219	ND	108	40-150	6.24	30	
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	233	9.1	ng/L	219	ND	107	40-150	5.28	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	92.6	3.6	ng/L	87.4	ND	106	40-150	2.49	30	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	110	3.6	ng/L	82.5	ND	134	40-150	12.1	30	
9Cl-PF3ONS (F53B Minor)	129	3.6	ng/L	82.0	ND	157 *	40-150	8.93	30	MS-12
11Cl-PF3OUds (F53B Major)	127	3.6	ng/L	82.5	ND	154 *	40-150	12.3	30	MS-12
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	122	9.1	ng/L	219	ND	55.6	40-150	12.7	30	
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	3140	46	ng/L	1090	ND	287 *	40-150	5.79	30	MS-12
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	2370	46	ng/L	1090	ND	217 *	40-150	2.53	30	MS-12
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	61.9	1.8	ng/L	38.9	ND	159 *	40-150	0.544	30	MS-12
Perfluoro-3-methoxypropanoic acid (PFMPA)	23.0	1.8	ng/L	43.7	ND	52.7	40-150	17.8	30	
Perfluoro-4-methoxybutanoic acid (PFMBA)	48.0	1.8	ng/L	43.7	ND	110	40-150	6.10	30	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	24.2	1.8	ng/L	43.7	ND	55.3	40-150	5.50	30	
Surrogate: 13C4-PFBA	4.73		ng/L	91.1		5.20 *	20-150			PF-18
Surrogate: 13C5-PFPeA	10.0		ng/L	45.5		22.0	20-150			
Surrogate: 13C5-PFHxA	15.5		ng/L	22.8		68.0	20-150			
Surrogate: 13C4-PFHpA	23.8		ng/L	22.8		105	20-150			
Surrogate: 13C8-PFOA	16.3		ng/L	22.8		71.5	20-150			
Surrogate: 13C9-PFNA	8.08		ng/L	11.4		71.0	20-150			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342300 - Draft Method 1633
Matrix Spike Dup (B342300-MSD1)
Source: 23E3540-09

Prepared: 06/12/23 Analyzed: 06/14/23

Surrogate: 13C6-PFDA	8.14		ng/L	11.4		71.5	20-150			
Surrogate: 13C7-PFUnA	8.13		ng/L	11.4		71.4	20-150			
Surrogate: 13C2-PFDoA	8.23		ng/L	11.4		72.3	20-150			
Surrogate: 13C2-PFTeDA	7.51		ng/L	11.4		66.0	20-150			
Surrogate: 13C3-PFBS	11.9		ng/L	22.8		52.4	20-150			
Surrogate: 13C3-PFHxS	16.6		ng/L	22.8		73.1	20-150			
Surrogate: 13C8-PFOS	16.6		ng/L	22.8		73.0	20-150			
Surrogate: 13C2-4:2FTS	50.9		ng/L	45.5		112	20-150			
Surrogate: 13C2-6:2FTS	57.2		ng/L	45.5		126	20-150			
Surrogate: 13C2-8:2FTS	50.4		ng/L	45.5		111	20-150			
Surrogate: 13C8-PFOSA	15.0		ng/L	22.8		65.9	20-150			
Surrogate: D3-NMeFOSA	13.3		ng/L	22.8		58.3	20-150			
Surrogate: D5-NEtFOSA	13.3		ng/L	22.8		58.4	20-150			
Surrogate: D3-NMeFOSAA	32.7		ng/L	45.5		71.9	20-150			
Surrogate: D5-NEtFOSAA	33.4		ng/L	45.5		73.3	20-150			
Surrogate: D7-NMeFOSE	143		ng/L	228		62.7	20-150			
Surrogate: D9-NEtFOSE	139		ng/L	228		60.9	20-150			
Surrogate: 13C3-HFPO-DA	71.2		ng/L	91.1		78.2	20-150			

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QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B341784 - Draft Method 1633
Blank (B341784-BLK1)

Prepared & Analyzed: 05/31/23

Total Suspended Solids	ND	5.0	mg/L							

LCS (B341784-BS1)

Prepared & Analyzed: 05/31/23

Total Suspended Solids	214	5.0	mg/L	200		107	64.1-125			

Batch B341918 - Draft Method 1633
Blank (B341918-BLK1)

Prepared & Analyzed: 06/01/23

Total Suspended Solids	ND	2.5	mg/L							

LCS (B341918-BS1)

Prepared & Analyzed: 06/01/23

Total Suspended Solids	152	2.5	mg/L	200		76.0	64.1-125			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
D	Sample analyzed at a dilution.
E	Reported result is estimated. Value reported over verified calibration range.
H-01	Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
MS-12	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
MS-23	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.
PF-17	Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.
PF-18	Duplicate analysis confirmed Extracted Internal Standard failure due to matrix effects.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
S-29	Extracted Internal Standard is outside of control limits.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>Draft Method 1633 in Water</i>	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV
Perfluorotetradecanoic acid (PFTeDA)	NH-P,NY,PA,WV
Perfluorobutanesulfonic acid (PFBS)	NH-P,NY,PA,WV
Perfluoropentanesulfonic acid (PFPeS)	NH-P,NY,PA,WV
Perfluorohexanesulfonic acid (PFHxS)	NH-P,NY,PA,WV
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,NY,PA,WV
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,NY,PA,WV
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NH-P,PA,WV
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV
N-EtFOSAA (NEtFOSAA)	NH-P,NY,PA,WV
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,NY,PA,WV
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,NY,PA,WV
9Cl-PF3ONS (F53B Minor)	NH-P,NY,PA,WV
11Cl-PF3OUdS (F53B Major)	NH-P,NY,PA,WV
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	NH-P,NY,PA,WV
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,NY,PA,WV
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV

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Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2024
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
RI	Rhode Island Department of Health	LAO00373	12/30/2023
NC	North Carolina Div. of Water Quality	652	12/31/2023
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2023
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2023
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2024
WV	West Virginia DEP Division of Water and Waste Management	419	08/31/2024

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1800 Elm Street SE
Minneapolis, MN 55414

Page 1 of 4

Phone: 612-607-6400
Fax: 612-607-6344

https://www.pacelabs.com/

CHAIN OF CUSTODY RECORD (New York)

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: EA Engineering

Address: 269 W. Jefferson St. Syracuse, NY 13202

Phone: 315-460-1556

Project Name: Kestrel

Project Location: 1300 1st Ave. N. W. / 160534 / 00111B

Project Number: 160534

Project Manager: JOSH O'NEILL

Pace Analytical Quote Name/Number

Invoice Recipient:

Sampled By: N. Robinson

Relinquished by: (signature) EA
Received by: (signature) EA
Relinquished by: (signature) EA
Received by: (signature) EA
Relinquished by: (signature) EA
Received by: (signature) EA

Date/Time: 8/24/13 1550
Date/Time: 8/24/13 1550
Date/Time: 8/24/13 1550
Date/Time: 8/24/13 1550
Date/Time: 8/24/13 1550
Date/Time: 8/24/13 1550

Program B: Regulatory Information

AWQ STDS
NYC Sewer Discharge
Part 360 GW (Landfill)
NY Restricted Use
NY Unrestricted Use
NY Part 375

NY TOGS
NY CP-51

Deliverables

Enhanced Data Package
NYSDEC EQuIS EDD
EQuIS (Standard) EDD
NY Regulatory EDD
NY Regs Hits-Only EDD

Other:

Government
Federal
City

Municipality
21 J
Brownfield

MWRA
School
MBTA

WRTA

Chromatogram
AIHA-LAP, LLC

PCB ONLY
Soxhlet
Non Soxhlet

ANALYSIS REQUESTED

1 Matrix Codes:
GW = Ground Water
VW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

2 Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

3 Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

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Comments:

8260 ASD DEC 711
8270 ASD DEC 711
8081
1-4 Olorane SCN
PFAS 1633

8/24/13 1550
8/24/13 1550
8/24/13 1550
8/24/13 1550
8/24/13 1550
8/24/13 1550

3.7, 4.2, 5.1, 3.9, 4.9, 3.1, 1.5, 5.1, 3.9

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ANALYSIS REQUESTED										Dissolved Metals Samples		Orthophosphate Samples	
										☐ Field Filtered	☐ Lab to Filter	☐ Field Filtered	☐ Lab to Filter
2	2	2	2	3	2								
4	1	2	1	1	1								
1	1	1	1	1	1								

FACE Analytical Work Order#	Client/Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composting	Grab	Matrix Code	Code Code
9	518014 - MW-22 - MW-2D	5/23/23	1305		✓	GW	✓
10	518014 - MW-17	5/23/23	1326		✓	GW	✓
11	518014 - K-3	5/23/23	1430		✓	GW	✓
12	518014 - MW-15S	5/23/23	1433		✓	GW	✓
13	518014 - MW-21	5/23/23	1543		✓	GW	✓
14	518014 - MW-24	5/23/23	1554		✓	GW	✓
15	518014 - MW- ~~28S~~ 28S	5/24/23	1656		✓	GW	✓
16	518014 - DUP-1-GW	5/23/23	—		✓	GW	✓
17	518014 - MW-20	5/23/23	1716		✓	GW	✓
18	518014 - FB-052303	5/23/23	1725		✓	W	✓

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:	Program & Regulatory Information	Deliverables	3 ContAINER Codes:
<i>[Signature]</i> FA	5/4/13 1550	☐ AWQ STDS ☐ NYC Sewer Discharge ☐ Part 360 GW (Landfill) ☐ NY Restricted Use ☐ NY Unrestricted Use ☐ NY Part 375	☐ Enhanced Data Package ☒ NYSDEC EQUIS EDD ☐ EQUIS (Standard) EDD ☐ NY Regulatory EDD ☐ NY Regs Hits-Only EDD	A = Amber Glass G = Glass P = Plastic ST = Sterile V = Vial S = Summa Canister T = Tedlar Bag O = Other (please define)
<i>[Signature]</i>	5-24-23 1530			
<i>[Signature]</i>	5-25-23 1117			
<i>[Signature]</i>	5/25/23 1417			
<i>[Signature]</i>	5/25/23 1700	Other: _____ Project Entry	Other: _____	
<i>[Signature]</i>	5/25/23 1700	☒ Government ☐ Federal ☐ City ☐ Municipality ☐ 21 J ☐ Brownfield ☐ MWRA ☐ School ☐ MBTA ☐ WRTA	☐ Chromatogram ☐ AIHA-LAP, LLC	☐ PCB ONLY ☐ Soxhlet ☐ Non Soxhlet

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.pacelabs.com

ENV-FRM-ELON-0001 V05 Sample Receiving Checklist

Log In Back-Sheet

Login Sample Receipt Checklist – (Rejection Criteria Listing
– Using Acceptance Policy) Any False statement will be
brought to the attention of the Client – True or False



Client E-A Engineering

Project Merhay

MCP/RCP Required N/A

Deliverable Package Requirement NA

Location Broadabin, NR

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☒ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time FR 5/25/23 1700

Back-Sheet By / Date / Time LA 5/26/23 840

Temperature Method gun # 5

Temp ☒ < 6° C Actual Temperature 5.8/4-6/2.9/3.1/4.2

Rush Samples: Yes / ☒ No Notify 2.1/5.2/3.8

Short Hold: Yes / ☒ No Notify

Notes regarding Samples/COC outside of SOP:

	True	False
Received on Ice	☒	☐
Received in Cooler	☒	☐
Custody Seal: DATE TIME	☐	☒
COC Relinquished	☒	☐
COC/Samples Labels Agree	☒	☐
All Samples in Good Condition	☒	☐
Samples Received within Holding Time	☒	☐
Is there enough Volume	☒	☐
Proper Media/Container Used	☒	☐
Splitting Samples Required	☐	☒
MS/MSD	☒	☒
Trip Blanks	☐	☒
Lab to Filters	☐	☒
COC Legible	☒	☐
COC Included: (Check all included)		
Client ☒	Analysis ☒	Sampler Name ☒
Project ☒	IDs ☒	Collection Date/Time ☒
All Samples Proper pH: <u>N/A</u>	☐	☐

Additional Container Notes

Sample	Soils Jars				Ambers				Plastics				VOA Vials				Other / Fill in			
	(Circle Amb/Clear)				1 Liter				250mL				1 Liter				500mL			
1	16oz Amb/Clear				Unpreserved				Unpreserved				Unpreserved				Unpreserved			
2	8oz Amb/Clear				HCL				Sulfuric				Sulfuric				Trizma			
3	4oz Amb/Clear				Sulfuric				Phosphoric				Sulfuric				Sulfuric			
4	2oz Amb/Clear				HCl				HCl				Unpreserved				Nitric			
5					Unpreserved				Unpreserved				Sulfuric				NaOH			
6													Unpreserved				NaOH/Zinc			
7													HCl				Unpreserved			
8													MeOH				Col/Bact			
9													D.I. Water							
10													BiSulfate							
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				

June 19, 2023

Joshua Oliver
NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202

Project Location: Broadalbin, NY
Client Job Number:
Project Number: 518014
Laboratory Work Order Number: 23E3549

Enclosed are results of analyses for samples as received by the laboratory on May 25, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle K. Stuckey
Project Manager

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NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202
ATTN: Joshua Oliver

REPORT DATE: 6/19/2023

PURCHASE ORDER NUMBER: 141733

PROJECT NUMBER: 518014

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23E3549

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Broadalbin, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
518014-EB-052323	23E3549-01	Equipment Blank Water		Draft Method 1633	
518014-MW-19	23E3549-02	Ground Water		Draft Method 1633	
518014-MW-16D	23E3549-03	Ground Water		Draft Method 1633	
518014-MW-15D	23E3549-04	Ground Water		Draft Method 1633	
518014-SW-02	23E3549-05	Surface Water		Draft Method 1633	
518014-SD-02	23E3549-06	Soil		Draft Method 1633	
				SM 2540G	
518014-SW-01	23E3549-07	Surface Water		Draft Method 1633	
518014-SD-01	23E3549-08	Soil		Draft Method 1633	
				SM 2540G	
518014-FB-052423	23E3549-09	Field Blank		Draft Method 1633	
518014-EB-052423	23E3549-10	Equipment Blank Water		Draft Method 1633	
518014-FD-01-SW	23E3549-11	Surface Water		Draft Method 1633	
518014-FD-01-SD	23E3549-12	Soil		Draft Method 1633	
				SM 2540G	
518014-SW-03	23E3549-13	Surface Water		Draft Method 1633	
518014-SD-03	23E3549-14	Soil		Draft Method 1633	
				SM 2540G	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Draft Method 1633**Qualifications:****B**

Analyte is found in the associated laboratory blank as well as in the sample.

Analyte & Samples(s) Qualified:**Perfluorobutanoic acid (PFBA)**

23E3549-01[518014-EB-052323], 23E3549-02[518014-MW-19], 23E3549-03[518014-MW-16D], B342299-BLK1, B342299-BS1, B342299-BS2, B342299-MS1, B342299-MSD1

H-01

Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.

Analyte & Samples(s) Qualified:**Total Suspended Solids**

23E3549-02[518014-MW-19], 23E3549-03[518014-MW-16D], 23E3549-04[518014-MW-15D], 23E3549-05[518014-SW-02], 23E3549-07[518014-SW-01], 23E3549-11[518014-FD-01-SW]

L-03

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**Perfluoro-3-methoxypropanoic acid (PFMPA)**

23E3549-01[518014-EB-052323], 23E3549-02[518014-MW-19], 23E3549-03[518014-MW-16D], B342299-BS1

PF-17B

Extracted internal standard is outside of control limits. Insufficient sample volume for re-extraction.

Analyte & Samples(s) Qualified:**13C4-PFBA**

23E3549-01[518014-EB-052323]

Perfluorobutanoic acid (PFBA)

23E3549-01[518014-EB-052323]

PF-18

Duplicate analysis confirmed Extracted Internal Standard failure due to matrix effects.

Analyte & Samples(s) Qualified:**13C4-PFBA**

23E3549-04RE1[518014-MW-15D]

Perfluorobutanoic acid (PFBA)

23E3549-04RE1[518014-MW-15D]

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:**13C4-PFBA**

B342299-BLK1, B342299-BS1

Perfluorobutanoic acid (PFBA)

B342299-BLK1, B342299-BS1

SM 2540G**Qualifications:****H-06**

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:**% Solids**

23E3549-06[518014-SD-02], 23E3549-08[518014-SD-01], 23E3549-12[518014-FD-01-SD], 23E3549-14[518014-SD-03]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-EB-052323

Sampled: 5/23/2023 17:30

Sample ID: 23E3549-01

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	2.6	3.7	1.4	ng/L	1	B, PF-17B, J	Draft Method 1633	6/6/23	6/7/23 20:08	AMS
Perfluoropentanoic acid (PFPeA)	ND	1.9	0.32	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
Perfluorohexanoic acid (PFHxA)	ND	0.93	0.20	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
Perfluoroheptanoic acid (PFHpA)	ND	0.93	0.24	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
Perfluorooctanoic acid (PFOA)	ND	0.93	0.21	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
Perfluorononanoic acid (PFNA)	ND	0.93	0.18	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
Perfluorodecanoic acid (PFDA)	ND	0.93	0.17	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.93	0.25	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.93	0.24	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.93	0.25	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.93	0.23	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	0.93	0.24	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.93	0.22	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	0.93	0.19	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.93	0.28	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	0.93	0.30	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.93	0.27	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.93	0.29	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.93	0.25	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.7	0.65	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.7	0.92	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.7	1.0	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.93	0.29	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.93	0.39	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.93	0.29	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.93	0.41	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.93	0.21	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.3	2.4	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.3	2.3	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.7	0.97	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.7	0.64	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.7	0.79	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
11Cl-PF3OUDS (F53B Major)	ND	3.7	0.90	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.3	1.7	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	47	9.5	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	47	8.2	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.46	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.46	ng/L	1	L-03	Draft Method 1633	6/6/23	6/7/23 20:08	AMS

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-EB-052323

Sampled: 5/23/2023 17:30

Sample ID: 23E3549-01

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	0.37	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.81	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:08	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	6.03	*	20-150		PF-17B			6/7/23	20:08	
13C5-PFPeA	66.8		20-150					6/7/23	20:08	
13C5-PFHxA	73.4		20-150					6/7/23	20:08	
13C4-PFHpA	74.9		20-150					6/7/23	20:08	
13C8-PFOA	72.3		20-150					6/7/23	20:08	
13C9-PFNA	73.3		20-150					6/7/23	20:08	
13C6-PFDA	74.3		20-150					6/7/23	20:08	
13C7-PFUnA	72.3		20-150					6/7/23	20:08	
13C2-PFDoA	70.5		20-150					6/7/23	20:08	
13C2-PFTeDA	66.5		20-150					6/7/23	20:08	
13C3-PFBS	73.0		20-150					6/7/23	20:08	
13C3-PFHxS	71.9		20-150					6/7/23	20:08	
13C8-PFOS	72.3		20-150					6/7/23	20:08	
13C2-4:2FTS	65.0		20-150					6/7/23	20:08	
13C2-6:2FTS	65.8		20-150					6/7/23	20:08	
13C2-8:2FTS	64.4		20-150					6/7/23	20:08	
13C8-PFOA	69.6		20-150					6/7/23	20:08	
D3-NMeFOSA	65.6		20-150					6/7/23	20:08	
D5-NEtFOSA	63.4		20-150					6/7/23	20:08	
D3-NMeFOSAA	70.9		20-150					6/7/23	20:08	
D5-NEtFOSAA	69.6		20-150					6/7/23	20:08	
D7-NMeFOSE	62.9		20-150					6/7/23	20:08	
D9-NEtFOSE	60.9		20-150					6/7/23	20:08	
13C3-HFPO-DA	75.6		20-150					6/7/23	20:08	

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-EB-052323

Sampled: 5/23/2023 17:30

Sample ID: 23E3549-01

Sample Matrix: Equipment Blank Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	5/26/23	5/26/23 11:41	LL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-MW-19

Sampled: 5/23/2023 17:50

Sample ID: 23E3549-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	4.4	3.6	1.3	ng/L	1	B	Draft Method 1633	6/6/23	6/7/23 20:24	AMS
Perfluoropentanoic acid (PFPeA)	ND	1.8	0.32	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
Perfluorohexanoic acid (PFHxA)	4.0	0.91	0.20	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
Perfluoroheptanoic acid (PFHpA)	2.6	0.91	0.23	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
Perfluorooctanoic acid (PFOA)	5.5	0.91	0.21	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
Perfluorononanoic acid (PFNA)	1.0	0.91	0.17	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
Perfluorodecanoic acid (PFDA)	0.18	0.91	0.17	ng/L	1	J	Draft Method 1633	6/6/23	6/7/23 20:24	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.91	0.25	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.91	0.24	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.91	0.25	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.91	0.23	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
Perfluorobutanesulfonic acid (PFBS)	2.9	0.91	0.24	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.91	0.22	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
Perfluorohexanesulfonic acid (PFHxS)	1.1	0.91	0.19	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
Perfluoroheptanesulfonic acid (PFHpS)	0.29	0.91	0.28	ng/L	1	J	Draft Method 1633	6/6/23	6/7/23 20:24	AMS
Perfluorooctanesulfonic acid (PFOS)	15	0.91	0.29	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.91	0.27	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.91	0.29	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.91	0.24	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	0.64	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.6	0.90	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	0.99	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.91	0.28	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.91	0.38	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.91	0.28	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.91	0.40	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
N-EtFOSAA (NEtFOSAA)	1.1	0.91	0.20	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.1	2.4	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.1	2.2	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	0.95	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.6	0.63	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.6	0.78	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
11Cl-PF3OUDS (F53B Major)	ND	3.6	0.88	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.1	1.6	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	46	9.3	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	46	8.0	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.45	ng/L	1	L-03	Draft Method 1633	6/6/23	6/7/23 20:24	AMS

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-MW-19

Sampled: 5/23/2023 17:50

Sample ID: 23E3549-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.37	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.79	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:24	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	45.5		20-150				6/7/23 20:24			
13C5-PFPeA	61.7		20-150				6/7/23 20:24			
13C5-PFHxA	71.7		20-150				6/7/23 20:24			
13C4-PFHpA	70.6		20-150				6/7/23 20:24			
13C8-PFOA	70.5		20-150				6/7/23 20:24			
13C9-PFNA	67.5		20-150				6/7/23 20:24			
13C6-PFDA	67.3		20-150				6/7/23 20:24			
13C7-PFUnA	67.0		20-150				6/7/23 20:24			
13C2-PFDoA	61.0		20-150				6/7/23 20:24			
13C2-PFTeDA	55.5		20-150				6/7/23 20:24			
13C3-PFBS	69.4		20-150				6/7/23 20:24			
13C3-PFHxS	69.3		20-150				6/7/23 20:24			
13C8-PFOS	68.6		20-150				6/7/23 20:24			
13C2-4:2FTS	135		20-150				6/7/23 20:24			
13C2-6:2FTS	113		20-150				6/7/23 20:24			
13C2-8:2FTS	93.9		20-150				6/7/23 20:24			
13C8-PFOSA	55.6		20-150				6/7/23 20:24			
D3-NMeFOSA	50.5		20-150				6/7/23 20:24			
D5-NEtFOSA	50.9		20-150				6/7/23 20:24			
D3-NMeFOSAA	53.4		20-150				6/7/23 20:24			
D5-NEtFOSAA	51.9		20-150				6/7/23 20:24			
D7-NMeFOSE	47.2		20-150				6/7/23 20:24			
D9-NEtFOSE	44.0		20-150				6/7/23 20:24			
13C3-HFPO-DA	65.5		20-150				6/7/23 20:24			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-MW-19

Sampled: 5/23/2023 17:50

Sample ID: 23E3549-02

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	22	10	mg/L	1	H-01	Draft Method 1633	5/31/23	5/31/23 13:33	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-MW-16D

Sampled: 5/24/2023 08:19

Sample ID: 23E3549-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	2.1	3.6	1.3	ng/L	1	B, J	Draft Method 1633	6/6/23	6/7/23 20:39	AMS
Perfluoropentanoic acid (PFPeA)	ND	1.8	0.31	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
Perfluorohexanoic acid (PFHxA)	0.81	0.90	0.19	ng/L	1	J	Draft Method 1633	6/6/23	6/7/23 20:39	AMS
Perfluoroheptanoic acid (PFHpA)	0.59	0.90	0.23	ng/L	1	J	Draft Method 1633	6/6/23	6/7/23 20:39	AMS
Perfluorooctanoic acid (PFOA)	2.9	0.90	0.20	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
Perfluorononanoic acid (PFNA)	ND	0.90	0.17	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
Perfluorodecanoic acid (PFDA)	ND	0.90	0.17	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.90	0.25	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.90	0.23	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.90	0.24	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.90	0.23	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
Perfluorobutanesulfonic acid (PFBS)	0.57	0.90	0.23	ng/L	1	J	Draft Method 1633	6/6/23	6/7/23 20:39	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.90	0.21	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
Perfluorohexanesulfonic acid (PFHxS)	0.33	0.90	0.19	ng/L	1	J	Draft Method 1633	6/6/23	6/7/23 20:39	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.90	0.28	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
Perfluorooctanesulfonic acid (PFOS)	0.77	0.90	0.29	ng/L	1	J	Draft Method 1633	6/6/23	6/7/23 20:39	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.90	0.27	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.90	0.28	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.90	0.24	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.6	0.63	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	2.5	3.6	0.89	ng/L	1	J	Draft Method 1633	6/6/23	6/7/23 20:39	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.6	0.98	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.90	0.28	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.90	0.38	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.90	0.28	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.90	0.40	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.90	0.20	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.0	2.4	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.0	2.2	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.6	0.94	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.6	0.62	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.6	0.77	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
11Cl-PF3OUDS (F53B Major)	ND	3.6	0.87	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.0	1.6	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA) (5:3FTCA)	ND	45	9.2	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	45	8.0	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.44	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.45	ng/L	1	L-03	Draft Method 1633	6/6/23	6/7/23 20:39	AMS

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-MW-16D

Sampled: 5/24/2023 08:19

Sample ID: 23E3549-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.36	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.78	ng/L	1		Draft Method 1633	6/6/23	6/7/23 20:39	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	35.6		20-150				6/7/23 20:39			
13C5-PFPeA	69.4		20-150				6/7/23 20:39			
13C5-PFHxA	71.6		20-150				6/7/23 20:39			
13C4-PFHpA	71.6		20-150				6/7/23 20:39			
13C8-PFOA	70.9		20-150				6/7/23 20:39			
13C9-PFNA	71.9		20-150				6/7/23 20:39			
13C6-PFDA	74.3		20-150				6/7/23 20:39			
13C7-PFUnA	71.5		20-150				6/7/23 20:39			
13C2-PFDoA	68.1		20-150				6/7/23 20:39			
13C2-PFTeDA	65.6		20-150				6/7/23 20:39			
13C3-PFBS	74.8		20-150				6/7/23 20:39			
13C3-PFHxS	72.4		20-150				6/7/23 20:39			
13C8-PFOS	70.8		20-150				6/7/23 20:39			
13C2-4:2FTS	108		20-150				6/7/23 20:39			
13C2-6:2FTS	75.8		20-150				6/7/23 20:39			
13C2-8:2FTS	64.5		20-150				6/7/23 20:39			
13C8-PFOSA	64.9		20-150				6/7/23 20:39			
D3-NMeFOSA	56.0		20-150				6/7/23 20:39			
D5-NEtFOSA	54.9		20-150				6/7/23 20:39			
D3-NMeFOSAA	66.0		20-150				6/7/23 20:39			
D5-NEtFOSAA	64.2		20-150				6/7/23 20:39			
D7-NMeFOSE	58.5		20-150				6/7/23 20:39			
D9-NEtFOSE	57.4		20-150				6/7/23 20:39			
13C3-HFPO-DA	69.9		20-150				6/7/23 20:39			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-MW-16D

Sampled: 5/24/2023 08:19

Sample ID: 23E3549-03

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1	H-01	Draft Method 1633	5/31/23	5/31/23 13:33	LL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-MW-15D

Sampled: 5/24/2023 08:55

Sample ID: 23E3549-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	1.7	3.7	1.3	ng/L	1	PF-18, J	Draft Method 1633	6/14/23	6/16/23 14:47	AMS
Perfluoropentanoic acid (PFPeA)	ND	1.8	0.32	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
Perfluorohexanoic acid (PFHxA)	ND	0.92	0.20	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
Perfluoroheptanoic acid (PFHpA)	ND	0.92	0.24	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
Perfluorooctanoic acid (PFOA)	ND	0.92	0.21	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
Perfluorononanoic acid (PFNA)	ND	0.92	0.18	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
Perfluorodecanoic acid (PFDA)	ND	0.92	0.17	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.92	0.25	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.92	0.24	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.92	0.25	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.92	0.23	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	0.92	0.24	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.92	0.22	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	0.92	0.19	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.92	0.28	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	0.92	0.29	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.92	0.27	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.92	0.29	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.92	0.25	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.7	0.64	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.7	0.91	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.7	1.0	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
Perfluorooctanesulfonamide (PFOSA)	1.2	0.92	0.28	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.92	0.38	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.92	0.28	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.92	0.41	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.92	0.20	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.2	2.4	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.2	2.3	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.7	0.97	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.7	0.63	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.7	0.79	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
11Cl-PF3OUDs (F53B Major)	ND	3.7	0.89	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.2	1.7	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	46	9.4	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	46	8.1	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.46	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-MW-15D

Sampled: 5/24/2023 08:55

Sample ID: 23E3549-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.37	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.80	ng/L	1		Draft Method 1633	6/14/23	6/16/23 14:47	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	6.21	*		20-150		PF-18			6/16/23 14:47	
13C5-PFPeA	85.7			20-150					6/16/23 14:47	
13C5-PFHxA	86.0			20-150					6/16/23 14:47	
13C4-PFHpA	84.6			20-150					6/16/23 14:47	
13C8-PFOA	85.2			20-150					6/16/23 14:47	
13C9-PFNA	84.6			20-150					6/16/23 14:47	
13C6-PFDA	85.8			20-150					6/16/23 14:47	
13C7-PFUnA	83.5			20-150					6/16/23 14:47	
13C2-PFDoA	79.8			20-150					6/16/23 14:47	
13C2-PFTeDA	80.5			20-150					6/16/23 14:47	
13C3-PFBS	86.7			20-150					6/16/23 14:47	
13C3-PFHxS	86.2			20-150					6/16/23 14:47	
13C8-PFOS	84.3			20-150					6/16/23 14:47	
13C2-4:2FTS	78.7			20-150					6/16/23 14:47	
13C2-6:2FTS	101			20-150					6/16/23 14:47	
13C2-8:2FTS	81.5			20-150					6/16/23 14:47	
13C8-PFOSA	80.1			20-150					6/16/23 14:47	
D3-NMeFOSA	60.9			20-150					6/16/23 14:47	
D5-NEtFOSA	55.4			20-150					6/16/23 14:47	
D3-NMeFOSAA	79.7			20-150					6/16/23 14:47	
D5-NEtFOSAA	78.7			20-150					6/16/23 14:47	
D7-NMeFOSE	61.5			20-150					6/16/23 14:47	
D9-NEtFOSE	58.4			20-150					6/16/23 14:47	
13C3-HFPO-DA	85.9			20-150					6/16/23 14:47	

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-MW-15D

Sampled: 5/24/2023 08:55

Sample ID: 23E3549-04

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1	H-01	Draft Method 1633	5/31/23	5/31/23 13:33	LL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-SW-02

Sampled: 5/24/2023 11:35

Sample ID: 23E3549-05

Sample Matrix: Surface Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	1.6	3.9	1.4	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 15:03	AMS
Perfluoropentanoic acid (PFPeA)	0.58	2.0	0.34	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 15:03	AMS
Perfluorohexanoic acid (PFHxA)	0.39	0.98	0.21	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 15:03	AMS
Perfluoroheptanoic acid (PFHpA)	ND	0.98	0.25	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
Perfluorooctanoic acid (PFOA)	0.65	0.98	0.22	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 15:03	AMS
Perfluorononanoic acid (PFNA)	ND	0.98	0.19	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
Perfluorodecanoic acid (PFDA)	ND	0.98	0.18	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.98	0.27	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.98	0.25	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.98	0.27	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.98	0.25	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
Perfluorobutanesulfonic acid (PFBS)	0.33	0.98	0.26	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 15:03	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.98	0.23	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
Perfluorohexanesulfonic acid (PFHxS)	0.38	0.98	0.20	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 15:03	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.98	0.30	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
Perfluorooctanesulfonic acid (PFOS)	0.60	0.98	0.31	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 15:03	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.98	0.29	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.98	0.31	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.98	0.26	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.9	0.69	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.9	0.97	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.9	1.1	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.98	0.30	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.98	0.41	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.98	0.30	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.98	0.43	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.98	0.22	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.8	2.6	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.8	2.4	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.9	1.0	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.9	0.68	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.9	0.84	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
11Cl-PF3OUDS (F53B Major)	ND	3.9	0.95	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.8	1.8	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	49	10	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
3-Perfluoroheptyl propanoic acid (FHPrPA) (7:3FTCA)	ND	49	8.7	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	0.48	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	0.49	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-SW-02

Sampled: 5/24/2023 11:35

Sample ID: 23E3549-05

Sample Matrix: Surface Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	0.40	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	0.85	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:03	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	26.7		20-150				6/16/23 15:03			
13C5-PFPeA	82.1		20-150				6/16/23 15:03			
13C5-PFHxA	81.1		20-150				6/16/23 15:03			
13C4-PFHpA	81.4		20-150				6/16/23 15:03			
13C8-PFOA	75.6		20-150				6/16/23 15:03			
13C9-PFNA	80.8		20-150				6/16/23 15:03			
13C6-PFDA	80.4		20-150				6/16/23 15:03			
13C7-PFUnA	77.9		20-150				6/16/23 15:03			
13C2-PFDoA	75.5		20-150				6/16/23 15:03			
13C2-PFTeDA	67.0		20-150				6/16/23 15:03			
13C3-PFBS	78.0		20-150				6/16/23 15:03			
13C3-PFHxS	80.1		20-150				6/16/23 15:03			
13C8-PFOS	78.4		20-150				6/16/23 15:03			
13C2-4:2FTS	83.4		20-150				6/16/23 15:03			
13C2-6:2FTS	81.3		20-150				6/16/23 15:03			
13C2-8:2FTS	74.2		20-150				6/16/23 15:03			
13C8-PFOSA	73.6		20-150				6/16/23 15:03			
D3-NMeFOSA	58.6		20-150				6/16/23 15:03			
D5-NEtFOSA	58.3		20-150				6/16/23 15:03			
D3-NMeFOSAA	74.4		20-150				6/16/23 15:03			
D5-NEtFOSAA	74.3		20-150				6/16/23 15:03			
D7-NMeFOSE	64.4		20-150				6/16/23 15:03			
D9-NEtFOSE	62.5		20-150				6/16/23 15:03			
13C3-HFPO-DA	79.1		20-150				6/16/23 15:03			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-SW-02

Sampled: 5/24/2023 11:35

Sample ID: 23E3549-05

Sample Matrix: Surface Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	10	10	mg/L	1	H-01	Draft Method 1633	5/31/23	5/31/23 13:33	LL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-SD-02

Sampled: 5/24/2023 11:50

Sample ID: 23E3549-06

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.80	0.14	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.026	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
Perfluorohexanoic acid (PFHxA)	0.014	0.20	0.014	µg/kg dry	1	J	Draft Method 1633	6/9/23	6/15/23 18:10	AMS
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.015	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
Perfluorooctanoic acid (PFOA)	ND	0.20	0.029	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
Perfluorononanoic acid (PFNA)	ND	0.20	0.026	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
Perfluorodecanoic acid (PFDA)	ND	0.20	0.019	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.020	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.022	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.027	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.018	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.020	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.030	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.025	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.022	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.036	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.030	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.045	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.021	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.80	0.075	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.80	0.082	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.80	0.074	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.20	0.021	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.028	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.028	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.042	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	2.0	0.15	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.17	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.80	0.065	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.80	0.081	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
9Cl-PF3ONS (F53B Minor)	ND	0.80	0.077	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
11Cl-PF3OUDS (F53B Major)	ND	0.80	0.10	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	2.0	0.17	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	10	1.2	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	10	0.98	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.020	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.042	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-SD-02

Sampled: 5/24/2023 11:50

Sample ID: 23E3549-06

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.031	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.041	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:10	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	66.7		20-150				6/15/23 18:10			
13C5-PFPeA	65.2		20-150				6/15/23 18:10			
13C5-PFHxA	65.7		20-150				6/15/23 18:10			
13C4-PFHpA	65.2		20-150				6/15/23 18:10			
13C8-PFOA	64.6		20-150				6/15/23 18:10			
13C9-PFNA	66.9		20-150				6/15/23 18:10			
13C6-PFDA	66.4		20-150				6/15/23 18:10			
13C7-PFUnA	66.1		20-150				6/15/23 18:10			
13C2-PFDoA	65.3		20-150				6/15/23 18:10			
13C2-PFTeDA	64.6		20-150				6/15/23 18:10			
13C3-PFBS	66.9		20-150				6/15/23 18:10			
13C3-PFHxS	65.5		20-150				6/15/23 18:10			
13C8-PFOS	64.8		20-150				6/15/23 18:10			
13C2-4:2FTS	61.8		20-150				6/15/23 18:10			
13C2-6:2FTS	68.8		20-150				6/15/23 18:10			
13C2-8:2FTS	66.9		20-150				6/15/23 18:10			
13C8-PFOA	59.1		20-150				6/15/23 18:10			
D3-NMeFOSA	49.2		20-150				6/15/23 18:10			
D5-NEtFOSA	42.8		20-150				6/15/23 18:10			
D3-NMeFOSAA	63.3		20-150				6/15/23 18:10			
D5-NEtFOSAA	62.7		20-150				6/15/23 18:10			
D7-NMeFOSE	54.4		20-150				6/15/23 18:10			
D9-NEtFOSE	52.9		20-150				6/15/23 18:10			
13C3-HFPO-DA	68.6		20-150				6/15/23 18:10			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-SD-02

Sampled: 5/24/2023 11:50

Sample ID: 23E3549-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.4		% Wt	1	H-06	SM 2540G	6/6/23	6/6/23 16:00	DRL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-SW-01

Sampled: 5/24/2023 12:25

Sample ID: 23E3549-07

Sample Matrix: Surface Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	1.5	3.8	1.4	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 15:18	AMS
Perfluoropentanoic acid (PFPeA)	0.51	1.9	0.33	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 15:18	AMS
Perfluorohexanoic acid (PFHxA)	0.39	0.95	0.20	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 15:18	AMS
Perfluoroheptanoic acid (PFHpA)	0.28	0.95	0.24	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 15:18	AMS
Perfluorooctanoic acid (PFOA)	0.59	0.95	0.21	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 15:18	AMS
Perfluorononanoic acid (PFNA)	ND	0.95	0.18	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
Perfluorodecanoic acid (PFDA)	ND	0.95	0.18	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.95	0.26	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.95	0.24	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.95	0.26	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.95	0.24	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
Perfluorobutanesulfonic acid (PFBS)	0.48	0.95	0.25	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 15:18	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.95	0.23	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
Perfluorohexanesulfonic acid (PFHxS)	0.34	0.95	0.19	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 15:18	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.95	0.29	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
Perfluorooctanesulfonic acid (PFOS)	0.66	0.95	0.30	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 15:18	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.95	0.28	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.95	0.30	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.95	0.25	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.8	0.66	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.8	0.93	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.8	1.0	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.95	0.29	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.95	0.39	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.95	0.29	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.95	0.42	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.95	0.21	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.5	2.5	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.5	2.3	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.8	0.99	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.8	0.65	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.8	0.81	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
11Cl-PF3OUDS (F53B Major)	ND	3.8	0.92	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.5	1.7	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	47	9.7	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	47	8.3	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.46	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.47	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-SW-01

Sampled: 5/24/2023 12:25

Sample ID: 23E3549-07

Sample Matrix: Surface Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	0.38	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.82	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:18	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	24.1		20-150				6/16/23 15:18			
13C5-PFPeA	78.6		20-150				6/16/23 15:18			
13C5-PFHxA	77.5		20-150				6/16/23 15:18			
13C4-PFHpA	76.6		20-150				6/16/23 15:18			
13C8-PFOA	76.1		20-150				6/16/23 15:18			
13C9-PFNA	75.1		20-150				6/16/23 15:18			
13C6-PFDA	73.8		20-150				6/16/23 15:18			
13C7-PFUnA	71.2		20-150				6/16/23 15:18			
13C2-PFDoA	66.9		20-150				6/16/23 15:18			
13C2-PFTeDA	57.9		20-150				6/16/23 15:18			
13C3-PFBS	77.2		20-150				6/16/23 15:18			
13C3-PFHxS	78.1		20-150				6/16/23 15:18			
13C8-PFOS	73.9		20-150				6/16/23 15:18			
13C2-4:2FTS	79.4		20-150				6/16/23 15:18			
13C2-6:2FTS	78.0		20-150				6/16/23 15:18			
13C2-8:2FTS	72.4		20-150				6/16/23 15:18			
13C8-PFOSA	71.1		20-150				6/16/23 15:18			
D3-NMeFOSA	55.4		20-150				6/16/23 15:18			
D5-NEtFOSA	55.8		20-150				6/16/23 15:18			
D3-NMeFOSAA	70.0		20-150				6/16/23 15:18			
D5-NEtFOSAA	70.1		20-150				6/16/23 15:18			
D7-NMeFOSE	58.6		20-150				6/16/23 15:18			
D9-NEtFOSE	55.3		20-150				6/16/23 15:18			
13C3-HFPO-DA	78.4		20-150				6/16/23 15:18			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-SW-01

Sampled: 5/24/2023 12:25

Sample ID: 23E3549-07

Sample Matrix: Surface Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1	H-01	Draft Method 1633	5/31/23	5/31/23 13:33	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-SD-01

Sampled: 5/24/2023 12:35

Sample ID: 23E3549-08

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.14	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.026	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
Perfluorohexanoic acid (PFHxA)	0.015	0.20	0.013	µg/kg dry	1	J	Draft Method 1633	6/9/23	6/15/23 18:26	AMS
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.015	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
Perfluorooctanoic acid (PFOA)	ND	0.20	0.029	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
Perfluorononanoic acid (PFNA)	ND	0.20	0.026	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
Perfluorodecanoic acid (PFDA)	ND	0.20	0.018	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.020	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.022	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.027	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.018	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.020	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.029	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.025	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.022	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.035	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.030	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.044	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.021	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.074	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.081	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.074	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.10	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.20	0.020	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.028	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.028	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.042	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	2.0	0.15	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.17	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.065	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.080	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.076	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
11Cl-PF3OUDS (F53B Major)	ND	0.79	0.10	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	2.0	0.17	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	9.9	1.2	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	9.9	0.97	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.020	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.042	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-SD-01

Sampled: 5/24/2023 12:35

Sample ID: 23E3549-08

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.031	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.040	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:26	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	70.6		20-150				6/15/23 18:26			
13C5-PFPeA	71.1		20-150				6/15/23 18:26			
13C5-PFHxA	70.8		20-150				6/15/23 18:26			
13C4-PFHpA	69.2		20-150				6/15/23 18:26			
13C8-PFOA	71.4		20-150				6/15/23 18:26			
13C9-PFNA	71.1		20-150				6/15/23 18:26			
13C6-PFDA	73.1		20-150				6/15/23 18:26			
13C7-PFUnA	73.2		20-150				6/15/23 18:26			
13C2-PFDoA	70.6		20-150				6/15/23 18:26			
13C2-PFTeDA	69.7		20-150				6/15/23 18:26			
13C3-PFBS	69.4		20-150				6/15/23 18:26			
13C3-PFHxS	70.1		20-150				6/15/23 18:26			
13C8-PFOS	71.3		20-150				6/15/23 18:26			
13C2-4:2FTS	62.0		20-150				6/15/23 18:26			
13C2-6:2FTS	68.7		20-150				6/15/23 18:26			
13C2-8:2FTS	68.8		20-150				6/15/23 18:26			
13C8-PFOA	64.1		20-150				6/15/23 18:26			
D3-NMeFOSA	57.4		20-150				6/15/23 18:26			
D5-NEtFOSA	50.9		20-150				6/15/23 18:26			
D3-NMeFOSAA	67.9		20-150				6/15/23 18:26			
D5-NEtFOSAA	69.3		20-150				6/15/23 18:26			
D7-NMeFOSE	61.6		20-150				6/15/23 18:26			
D9-NEtFOSE	59.3		20-150				6/15/23 18:26			
13C3-HFPO-DA	73.4		20-150				6/15/23 18:26			

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Project Location: Broadalbin, NY

Date Received: 5/25/2023

Field Sample #: 518014-SD-01

Sample ID: 23E3549-08

Sample Matrix: Soil

Sample Description:

Sampled: 5/24/2023 12:35

Work Order: 23E3549

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)									
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.1		% Wt	1	H-06	SM 2540G	6/6/23	6/6/23 16:00	DRL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-FB-052423

Sampled: 5/24/2023 12:50

Sample ID: 23E3549-09

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	3.7	1.3	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
Perfluoropentanoic acid (PFPeA)	ND	1.8	0.32	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
Perfluorohexanoic acid (PFHxA)	ND	0.91	0.20	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
Perfluoroheptanoic acid (PFHpA)	ND	0.91	0.23	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
Perfluorooctanoic acid (PFOA)	ND	0.91	0.21	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
Perfluorononanoic acid (PFNA)	ND	0.91	0.17	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
Perfluorodecanoic acid (PFDA)	ND	0.91	0.17	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.91	0.25	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.91	0.24	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.91	0.25	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.91	0.23	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	0.91	0.24	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.91	0.22	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	0.91	0.19	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.91	0.28	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	0.91	0.29	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.91	0.27	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.91	0.29	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.91	0.24	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.7	0.64	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.7	0.90	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.7	0.99	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.91	0.28	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.91	0.38	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.91	0.28	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.91	0.40	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.91	0.20	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.1	2.4	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.1	2.2	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.7	0.95	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	3.7	0.63	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.7	0.78	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
11Cl-PF3OUDs (F53B Major)	ND	3.7	0.88	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.1	1.6	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	46	9.3	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	46	8.0	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-FB-052423

Sampled: 5/24/2023 12:50

Sample ID: 23E3549-09

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.37	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.79	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:34	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	75.7		20-150				6/16/23 15:34			
13C5-PFPeA	74.8		20-150				6/16/23 15:34			
13C5-PFHxA	74.4		20-150				6/16/23 15:34			
13C4-PFHpA	74.1		20-150				6/16/23 15:34			
13C8-PFOA	71.7		20-150				6/16/23 15:34			
13C9-PFNA	72.1		20-150				6/16/23 15:34			
13C6-PFDA	73.0		20-150				6/16/23 15:34			
13C7-PFUnA	68.2		20-150				6/16/23 15:34			
13C2-PFDoA	67.3		20-150				6/16/23 15:34			
13C2-PFTeDA	65.0		20-150				6/16/23 15:34			
13C3-PFBS	76.0		20-150				6/16/23 15:34			
13C3-PFHxS	71.5		20-150				6/16/23 15:34			
13C8-PFOS	70.8		20-150				6/16/23 15:34			
13C2-4:2FTS	66.9		20-150				6/16/23 15:34			
13C2-6:2FTS	68.8		20-150				6/16/23 15:34			
13C2-8:2FTS	66.8		20-150				6/16/23 15:34			
13C8-PFOA	68.0		20-150				6/16/23 15:34			
D3-NMeFOSA	58.1		20-150				6/16/23 15:34			
D5-NEtFOSA	59.6		20-150				6/16/23 15:34			
D3-NMeFOSAA	71.2		20-150				6/16/23 15:34			
D5-NEtFOSAA	70.8		20-150				6/16/23 15:34			
D7-NMeFOSE	67.0		20-150				6/16/23 15:34			
D9-NEtFOSE	64.2		20-150				6/16/23 15:34			
13C3-HFPO-DA	75.4		20-150				6/16/23 15:34			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-FB-052423

Sampled: 5/24/2023 12:50

Sample ID: 23E3549-09

Sample Matrix: Field Blank

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	5/26/23	5/26/23 11:41	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-EB-052423

Sampled: 5/24/2023 12:55

Sample ID: 23E3549-10

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	3.7	1.3	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
Perfluoropentanoic acid (PFPeA)	ND	1.8	0.32	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
Perfluorohexanoic acid (PFHxA)	ND	0.92	0.20	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
Perfluoroheptanoic acid (PFHpA)	ND	0.92	0.23	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
Perfluorooctanoic acid (PFOA)	ND	0.92	0.21	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
Perfluorononanoic acid (PFNA)	ND	0.92	0.18	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
Perfluorodecanoic acid (PFDA)	ND	0.92	0.17	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.92	0.25	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.92	0.24	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.92	0.25	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.92	0.23	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	0.92	0.24	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.92	0.22	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	0.92	0.19	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.92	0.28	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	0.92	0.29	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.92	0.27	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.92	0.29	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.92	0.24	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.7	0.64	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.7	0.91	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.7	1.0	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.92	0.28	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.92	0.38	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.92	0.28	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.92	0.40	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.92	0.20	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.2	2.4	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.2	2.3	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.7	0.96	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.7	0.63	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.7	0.78	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
11Cl-PF3OUDs (F53B Major)	ND	3.7	0.89	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.2	1.7	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	46	9.4	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	46	8.1	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	0.45	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.8	0.46	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-EB-052423

Sampled: 5/24/2023 12:55

Sample ID: 23E3549-10

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.8	0.37	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	0.80	ng/L	1		Draft Method 1633	6/14/23	6/16/23 15:50	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	74.9		20-150				6/16/23 15:50			
13C5-PFPeA	74.9		20-150				6/16/23 15:50			
13C5-PFHxA	73.9		20-150				6/16/23 15:50			
13C4-PFHpA	73.5		20-150				6/16/23 15:50			
13C8-PFOA	73.4		20-150				6/16/23 15:50			
13C9-PFNA	70.6		20-150				6/16/23 15:50			
13C6-PFDA	69.9		20-150				6/16/23 15:50			
13C7-PFUnA	66.7		20-150				6/16/23 15:50			
13C2-PFDoA	63.4		20-150				6/16/23 15:50			
13C2-PFTeDA	63.1		20-150				6/16/23 15:50			
13C3-PFBS	76.2		20-150				6/16/23 15:50			
13C3-PFHxS	72.6		20-150				6/16/23 15:50			
13C8-PFOS	69.1		20-150				6/16/23 15:50			
13C2-4:2FTS	67.8		20-150				6/16/23 15:50			
13C2-6:2FTS	68.3		20-150				6/16/23 15:50			
13C2-8:2FTS	66.4		20-150				6/16/23 15:50			
13C8-PFOA	65.7		20-150				6/16/23 15:50			
D3-NMeFOSA	48.9		20-150				6/16/23 15:50			
D5-NEtFOSA	51.2		20-150				6/16/23 15:50			
D3-NMeFOSAA	67.0		20-150				6/16/23 15:50			
D5-NEtFOSAA	67.6		20-150				6/16/23 15:50			
D7-NMeFOSE	61.9		20-150				6/16/23 15:50			
D9-NEtFOSE	60.4		20-150				6/16/23 15:50			
13C3-HFPO-DA	77.1		20-150				6/16/23 15:50			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-EB-052423

Sampled: 5/24/2023 12:55

Sample ID: 23E3549-10

Sample Matrix: Equipment Blank Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	5/26/23	5/26/23 11:41	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-FD-01-SW

Sampled: 5/24/2023 00:00

Sample ID: 23E3549-11

Sample Matrix: Surface Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	1.8	4.0	1.5	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 16:05	AMS
Perfluoropentanoic acid (PFPeA)	0.59	2.0	0.35	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 16:05	AMS
Perfluorohexanoic acid (PFHxA)	0.44	1.0	0.22	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 16:05	AMS
Perfluoroheptanoic acid (PFHpA)	0.27	1.0	0.26	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 16:05	AMS
Perfluorooctanoic acid (PFOA)	0.70	1.0	0.23	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 16:05	AMS
Perfluorononanoic acid (PFNA)	0.21	1.0	0.19	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 16:05	AMS
Perfluorodecanoic acid (PFDA)	ND	1.0	0.19	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
Perfluoroundecanoic acid (PFUnA)	ND	1.0	0.28	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
Perfluorododecanoic acid (PFDoA)	ND	1.0	0.26	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	1.0	0.27	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	1.0	0.25	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
Perfluorobutanesulfonic acid (PFBS)	0.39	1.0	0.26	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 16:05	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	1.0	0.24	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
Perfluorohexanesulfonic acid (PFHxS)	0.32	1.0	0.21	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 16:05	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.0	0.31	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
Perfluorooctanesulfonic acid (PFOS)	0.57	1.0	0.32	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 16:05	AMS
Perfluorononanesulfonic acid (PFNS)	ND	1.0	0.30	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	1.0	0.32	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	1.0	0.27	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	4.0	0.70	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	4.0	0.99	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	4.0	1.1	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
Perfluorooctanesulfonamide (PFOSA)	0.35	1.0	0.31	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 16:05	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	1.0	0.42	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	1.0	0.31	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
N-MeFOSAA (NMeFOSAA)	ND	1.0	0.44	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
N-EtFOSAA (NEtFOSAA)	ND	1.0	0.22	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	10	2.6	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	10	2.5	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	4.0	1.1	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	4.0	0.69	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
9Cl-PF3ONS (F53B Minor)	ND	4.0	0.86	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
11Cl-PF3OUDs (F53B Major)	ND	4.0	0.98	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	10	1.8	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	50	10	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	50	8.9	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0	0.49	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	0.50	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-FD-01-SW

Sampled: 5/24/2023 00:00

Sample ID: 23E3549-11

Sample Matrix: Surface Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	0.40	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	0.87	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:05	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	30.9		20-150				6/16/23 16:05			
13C5-PFPeA	77.9		20-150				6/16/23 16:05			
13C5-PFHxA	78.8		20-150				6/16/23 16:05			
13C4-PFHpA	75.4		20-150				6/16/23 16:05			
13C8-PFOA	75.4		20-150				6/16/23 16:05			
13C9-PFNA	73.1		20-150				6/16/23 16:05			
13C6-PFDA	75.8		20-150				6/16/23 16:05			
13C7-PFUnA	72.0		20-150				6/16/23 16:05			
13C2-PFDoA	67.8		20-150				6/16/23 16:05			
13C2-PFTeDA	57.0		20-150				6/16/23 16:05			
13C3-PFBS	77.2		20-150				6/16/23 16:05			
13C3-PFHxS	75.9		20-150				6/16/23 16:05			
13C8-PFOS	73.0		20-150				6/16/23 16:05			
13C2-4:2FTS	78.1		20-150				6/16/23 16:05			
13C2-6:2FTS	77.4		20-150				6/16/23 16:05			
13C2-8:2FTS	70.2		20-150				6/16/23 16:05			
13C8-PFOSA	68.9		20-150				6/16/23 16:05			
D3-NMeFOSA	59.6		20-150				6/16/23 16:05			
D5-NEtFOSA	57.2		20-150				6/16/23 16:05			
D3-NMeFOSAA	71.1		20-150				6/16/23 16:05			
D5-NEtFOSAA	67.9		20-150				6/16/23 16:05			
D7-NMeFOSE	57.7		20-150				6/16/23 16:05			
D9-NEtFOSE	55.9		20-150				6/16/23 16:05			
13C3-HFPO-DA	78.7		20-150				6/16/23 16:05			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Broadalbin, NY	Sample Description:	Work Order: 23E3549
Date Received: 5/25/2023		
Field Sample #: 518014-FD-01-SW	Sampled: 5/24/2023 00:00	
Sample ID: 23E3549-11		
Sample Matrix: Surface Water		

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)									
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	14	10	mg/L	1	H-01	Draft Method 1633	5/31/23	5/31/23 13:33	LL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-FD-01-SD

Sampled: 5/24/2023 00:00

Sample ID: 23E3549-12

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.81	0.15	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
Perfluoropentanoic acid (PFPeA)	ND	0.41	0.026	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
Perfluorohexanoic acid (PFHxA)	0.016	0.20	0.014	µg/kg dry	1	J	Draft Method 1633	6/9/23	6/15/23 18:42	AMS
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.015	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
Perfluorooctanoic acid (PFOA)	ND	0.20	0.029	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
Perfluorononanoic acid (PFNA)	ND	0.20	0.026	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
Perfluorodecanoic acid (PFDA)	ND	0.20	0.019	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.021	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.022	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.027	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.019	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.020	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.030	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.025	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.023	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
Perfluorooctanesulfonic acid (PFOS)	0.063	0.20	0.036	µg/kg dry	1	J	Draft Method 1633	6/9/23	6/15/23 18:42	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.030	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.046	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.022	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.81	0.076	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.81	0.083	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.81	0.075	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.11	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.20	0.021	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.028	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.028	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.043	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	2.0	0.16	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.17	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.81	0.066	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.81	0.082	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
9Cl-PF3ONS (F53B Minor)	ND	0.81	0.078	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
11Cl-PF3OUDS (F53B Major)	ND	0.81	0.11	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	2.0	0.17	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	10	1.2	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	10	0.99	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.41	0.020	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.41	0.043	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-FD-01-SD

Sampled: 5/24/2023 00:00

Sample ID: 23E3549-12

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.41	0.031	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.41	0.041	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:42	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	71.7		20-150				6/15/23 18:42			
13C5-PFPeA	71.5		20-150				6/15/23 18:42			
13C5-PFHxA	71.6		20-150				6/15/23 18:42			
13C4-PFHpA	70.2		20-150				6/15/23 18:42			
13C8-PFOA	69.0		20-150				6/15/23 18:42			
13C9-PFNA	72.6		20-150				6/15/23 18:42			
13C6-PFDA	71.6		20-150				6/15/23 18:42			
13C7-PFUnA	69.6		20-150				6/15/23 18:42			
13C2-PFDoA	71.3		20-150				6/15/23 18:42			
13C2-PFTeDA	66.7		20-150				6/15/23 18:42			
13C3-PFBS	68.9		20-150				6/15/23 18:42			
13C3-PFHxS	70.3		20-150				6/15/23 18:42			
13C8-PFOS	72.7		20-150				6/15/23 18:42			
13C2-4:2FTS	74.9		20-150				6/15/23 18:42			
13C2-6:2FTS	78.7		20-150				6/15/23 18:42			
13C2-8:2FTS	75.3		20-150				6/15/23 18:42			
13C8-PFOA	65.0		20-150				6/15/23 18:42			
D3-NMeFOSA	53.1		20-150				6/15/23 18:42			
D5-NEtFOSA	46.0		20-150				6/15/23 18:42			
D3-NMeFOSAA	66.7		20-150				6/15/23 18:42			
D5-NEtFOSAA	66.6		20-150				6/15/23 18:42			
D7-NMeFOSE	60.6		20-150				6/15/23 18:42			
D9-NEtFOSE	56.7		20-150				6/15/23 18:42			
13C3-HFPO-DA	72.9		20-150				6/15/23 18:42			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-FD-01-SD

Sampled: 5/24/2023 00:00

Sample ID: 23E3549-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.6		% Wt	1	H-06	SM 2540G	6/6/23	6/6/23 16:00	DRL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-SW-03

Sampled: 5/24/2023 13:45

Sample ID: 23E3549-13

Sample Matrix: Surface Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	1.6	3.8	1.4	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 16:21	AMS
Perfluoropentanoic acid (PFPeA)	0.49	1.9	0.33	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 16:21	AMS
Perfluorohexanoic acid (PFHxA)	0.42	0.96	0.21	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 16:21	AMS
Perfluoroheptanoic acid (PFHpA)	0.32	0.96	0.24	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 16:21	AMS
Perfluorooctanoic acid (PFOA)	0.61	0.96	0.22	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 16:21	AMS
Perfluorononanoic acid (PFNA)	0.22	0.96	0.18	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 16:21	AMS
Perfluorodecanoic acid (PFDA)	ND	0.96	0.18	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.96	0.26	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.96	0.25	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.96	0.26	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.96	0.24	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
Perfluorobutanesulfonic acid (PFBS)	0.41	0.96	0.25	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 16:21	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.96	0.23	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
Perfluorohexanesulfonic acid (PFHxS)	0.35	0.96	0.20	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 16:21	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.96	0.29	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
Perfluorooctanesulfonic acid (PFOS)	0.66	0.96	0.30	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 16:21	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.96	0.28	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.96	0.30	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.96	0.25	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	3.8	0.67	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	3.8	0.95	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	3.8	1.0	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
Perfluorooctanesulfonamide (PFOSA)	0.38	0.96	0.29	ng/L	1	J	Draft Method 1633	6/14/23	6/16/23 16:21	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.96	0.40	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.96	0.30	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.96	0.42	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.96	0.21	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.6	2.5	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.6	2.3	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	3.8	1.0	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	3.8	0.66	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
9Cl-PF3ONS (F53B Minor)	ND	3.8	0.82	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
11Cl-PF3OUDS (F53B Major)	ND	3.8	0.93	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.6	1.7	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	ND	48	9.8	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	48	8.4	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9	0.47	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	1.9	0.48	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-SW-03

Sampled: 5/24/2023 13:45

Sample ID: 23E3549-13

Sample Matrix: Surface Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	1.9	0.39	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9	0.83	ng/L	1		Draft Method 1633	6/14/23	6/16/23 16:21	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	24.0		20-150				6/16/23 16:21			
13C5-PFPeA	74.4		20-150				6/16/23 16:21			
13C5-PFHxA	73.5		20-150				6/16/23 16:21			
13C4-PFHpA	71.8		20-150				6/16/23 16:21			
13C8-PFOA	70.7		20-150				6/16/23 16:21			
13C9-PFNA	75.5		20-150				6/16/23 16:21			
13C6-PFDA	71.0		20-150				6/16/23 16:21			
13C7-PFUnA	68.0		20-150				6/16/23 16:21			
13C2-PFDoA	64.9		20-150				6/16/23 16:21			
13C2-PFTeDA	55.5		20-150				6/16/23 16:21			
13C3-PFBS	71.7		20-150				6/16/23 16:21			
13C3-PFHxS	71.4		20-150				6/16/23 16:21			
13C8-PFOS	70.2		20-150				6/16/23 16:21			
13C2-4:2FTS	77.3		20-150				6/16/23 16:21			
13C2-6:2FTS	73.3		20-150				6/16/23 16:21			
13C2-8:2FTS	67.7		20-150				6/16/23 16:21			
13C8-PFOSA	66.5		20-150				6/16/23 16:21			
D3-NMeFOSA	54.5		20-150				6/16/23 16:21			
D5-NEtFOSA	54.8		20-150				6/16/23 16:21			
D3-NMeFOSAA	66.5		20-150				6/16/23 16:21			
D5-NEtFOSAA	68.5		20-150				6/16/23 16:21			
D7-NMeFOSE	56.4		20-150				6/16/23 16:21			
D9-NEtFOSE	54.6		20-150				6/16/23 16:21			
13C3-HFPO-DA	74.0		20-150				6/16/23 16:21			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-SW-03

Sampled: 5/24/2023 13:45

Sample ID: 23E3549-13

Sample Matrix: Surface Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	10	mg/L	1		Draft Method 1633	5/31/23	5/31/23 13:33	LL

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-SD-03

Sampled: 5/24/2023 13:55

Sample ID: 23E3549-14

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.80	0.15	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
Perfluoropentanoic acid (PFPeA)	ND	0.40	0.026	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
Perfluorohexanoic acid (PFHxA)	0.023	0.20	0.014	µg/kg dry	1	J	Draft Method 1633	6/9/23	6/15/23 18:57	AMS
Perfluoroheptanoic acid (PFHpA)	ND	0.20	0.015	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
Perfluorooctanoic acid (PFOA)	ND	0.20	0.029	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
Perfluorononanoic acid (PFNA)	ND	0.20	0.026	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
Perfluorodecanoic acid (PFDA)	ND	0.20	0.019	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
Perfluoroundecanoic acid (PFUnA)	ND	0.20	0.020	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.022	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.027	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.018	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.020	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.030	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.025	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.023	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	0.036	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.030	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.045	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.021	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.80	0.075	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.80	0.082	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.80	0.075	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.11	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.20	0.021	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.028	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
N-MeFOSAA (NMeFOSAA)	0.067	0.20	0.028	µg/kg dry	1	J	Draft Method 1633	6/9/23	6/15/23 18:57	AMS
N-EtFOSAA (NEtFOSAA)	0.078	0.20	0.042	µg/kg dry	1	J	Draft Method 1633	6/9/23	6/15/23 18:57	AMS
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	2.0	0.16	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.17	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.80	0.066	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.80	0.081	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
9Cl-PF3ONS (F53B Minor)	ND	0.80	0.077	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
11Cl-PF3OUDS (F53B Major)	ND	0.80	0.11	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	2.0	0.17	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA) (5:3FTCA)	ND	10	1.2	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	10	0.98	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.020	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.042	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-SD-03

Sampled: 5/24/2023 13:55

Sample ID: 23E3549-14

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.031	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.041	µg/kg dry	1		Draft Method 1633	6/9/23	6/15/23 18:57	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C4-PFBA	70.3		20-150				6/15/23 18:57			
13C5-PFPeA	70.1		20-150				6/15/23 18:57			
13C5-PFHxA	69.3		20-150				6/15/23 18:57			
13C4-PFHpA	67.9		20-150				6/15/23 18:57			
13C8-PFOA	67.0		20-150				6/15/23 18:57			
13C9-PFNA	70.2		20-150				6/15/23 18:57			
13C6-PFDA	69.8		20-150				6/15/23 18:57			
13C7-PFUnA	68.1		20-150				6/15/23 18:57			
13C2-PFDoA	69.7		20-150				6/15/23 18:57			
13C2-PFTeDA	60.4		20-150				6/15/23 18:57			
13C3-PFBS	66.5		20-150				6/15/23 18:57			
13C3-PFHxS	68.5		20-150				6/15/23 18:57			
13C8-PFOS	68.1		20-150				6/15/23 18:57			
13C2-4:2FTS	77.9		20-150				6/15/23 18:57			
13C2-6:2FTS	87.9		20-150				6/15/23 18:57			
13C2-8:2FTS	90.9		20-150				6/15/23 18:57			
13C8-PFOSA	66.4		20-150				6/15/23 18:57			
D3-NMeFOSA	38.4		20-150				6/15/23 18:57			
D5-NEtFOSA	29.1		20-150				6/15/23 18:57			
D3-NMeFOSAA	62.5		20-150				6/15/23 18:57			
D5-NEtFOSAA	66.9		20-150				6/15/23 18:57			
D7-NMeFOSE	47.6		20-150				6/15/23 18:57			
D9-NEtFOSE	41.4		20-150				6/15/23 18:57			
13C3-HFPO-DA	71.2		20-150				6/15/23 18:57			

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Project Location: Broadalbin, NY

Sample Description:

Work Order: 23E3549

Date Received: 5/25/2023

Field Sample #: 518014-SD-03

Sampled: 5/24/2023 13:55

Sample ID: 23E3549-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	56.3		% Wt	1	H-06	SM 2540G	6/6/23	6/6/23 16:00	DRL

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Sample Extraction Data

Prep Method:Draft Method 1633 Analytical Method:Draft Method 1633

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
23E3549-06 [518014-SD-02]	B342480	6.07	5.00	06/09/23
23E3549-08 [518014-SD-01]	B342480	6.39	5.00	06/09/23
23E3549-12 [518014-FD-01-SD]	B342480	6.43	5.00	06/09/23
23E3549-14 [518014-SD-03]	B342480	8.84	5.00	06/09/23

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
23E3549-01 [518014-EB-052323]	B341531	50.0	05/26/23
23E3549-09 [518014-FB-052423]	B341531	50.0	05/26/23
23E3549-10 [518014-EB-052423]	B341531	50.0	05/26/23

Draft Method 1633

Lab Number [Field ID]	Batch	Initial [mL]	Date
23E3549-02 [518014-MW-19]	B341784	50.0	05/31/23
23E3549-03 [518014-MW-16D]	B341784	50.0	05/31/23
23E3549-04 [518014-MW-15D]	B341784	50.0	05/31/23
23E3549-05 [518014-SW-02]	B341784	50.0	05/31/23
23E3549-07 [518014-SW-01]	B341784	50.0	05/31/23
23E3549-11 [518014-FD-01-SW]	B341784	50.0	05/31/23
23E3549-13 [518014-SW-03]	B341784	50.0	05/31/23

Prep Method:Draft Method 1633 Analytical Method:Draft Method 1633 Leachates were extracted on 5/26/2023 per NO PREP in Batch B341531

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E3549-01 [518014-EB-052323]	B342299	537	5.00	06/06/23
23E3549-02 [518014-MW-19]	B342299	548	5.00	06/06/23
23E3549-03 [518014-MW-16D]	B342299	553	5.00	06/06/23

Prep Method:Draft Method 1633 Analytical Method:Draft Method 1633 Leachates were extracted on 5/31/2023 per NO PREP in Batch B341784

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23E3549-04RE1 [518014-MW-15D]	B342720	541	5.00	06/14/23
23E3549-05RE1 [518014-SW-02]	B342720	508	5.00	06/14/23
23E3549-07RE1 [518014-SW-01]	B342720	528	5.00	06/14/23
23E3549-09RE1 [518014-FB-052423]	B342720	547	5.00	06/14/23
23E3549-10RE1 [518014-EB-052423]	B342720	544	5.00	06/14/23
23E3549-11RE1 [518014-FD-01-SW]	B342720	496	5.00	06/14/23
23E3549-13RE1 [518014-SW-03]	B342720	522	5.00	06/14/23

Prep Method:% Solids Analytical Method:SM 2540G

Lab Number [Field ID]	Batch	Date
23E3549-06 [518014-SD-02]	B342456	06/06/23
23E3549-08 [518014-SD-01]	B342456	06/06/23
23E3549-12 [518014-FD-01-SD]	B342456	06/06/23
23E3549-14 [518014-SD-03]	B342456	06/06/23

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Sample Extraction Data

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342299 - Draft Method 1633										
Blank (B342299-BLK1)				Prepared: 06/06/23 Analyzed: 06/07/23						
Perfluorobutanoic acid (PFBA)	4.6	4.0	ng/L							B, S-29
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	0.99	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	0.99	ng/L							
Perfluorooctanoic acid (PFOA)	ND	0.99	ng/L							
Perfluorononanoic acid (PFNA)	ND	0.99	ng/L							
Perfluorodecanoic acid (PFDA)	ND	0.99	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	0.99	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	0.99	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	0.99	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.99	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	0.99	ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.99	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.99	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.99	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	0.99	ng/L							
Perfluorononanesulfonic acid (PFNS)	ND	0.99	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	0.99	ng/L							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.99	ng/L							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	4.0	ng/L							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	4.0	ng/L							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	4.0	ng/L							
Perfluorooctanesulfonamide (PFOSA)	ND	0.99	ng/L							
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.99	ng/L							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.99	ng/L							
N-MeFOSAA (NMeFOSAA)	ND	0.99	ng/L							
N-EtFOSAA (NEtFOSAA)	ND	0.99	ng/L							
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.9	ng/L							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.9	ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	4.0	ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	4.0	ng/L							
9Cl-PF3ONS (F53B Minor)	ND	4.0	ng/L							
11Cl-PF3OUdS (F53B Major)	ND	4.0	ng/L							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.9	ng/L							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	50	ng/L							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	50	ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	2.0	ng/L							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	ng/L							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L							
Surrogate: 13C4-PFBA	4.45		ng/L	99.2		4.49	*	20-150		S-29

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342299 - Draft Method 1633
Blank (B342299-BLK1)

Prepared: 06/06/23 Analyzed: 06/07/23

Surrogate: 13C5-PFPeA	26.5		ng/L	49.6		53.5	20-150			
Surrogate: 13C5-PFHxA	19.5		ng/L	24.8		78.5	20-150			
Surrogate: 13C4-PFHpA	19.5		ng/L	24.8		78.7	20-150			
Surrogate: 13C8-PFOA	19.8		ng/L	24.8		79.8	20-150			
Surrogate: 13C9-PFNA	9.52		ng/L	12.4		76.8	20-150			
Surrogate: 13C6-PFDA	10.1		ng/L	12.4		81.3	20-150			
Surrogate: 13C7-PFUnA	9.54		ng/L	12.4		76.9	20-150			
Surrogate: 13C2-PFDoA	9.30		ng/L	12.4		75.0	20-150			
Surrogate: 13C2-PFTeDA	8.75		ng/L	12.4		70.6	20-150			
Surrogate: 13C3-PFBS	19.9		ng/L	24.8		80.5	20-150			
Surrogate: 13C3-PFHxS	19.1		ng/L	24.8		77.0	20-150			
Surrogate: 13C8-PFOS	19.4		ng/L	24.8		78.3	20-150			
Surrogate: 13C2-4:2FTS	35.2		ng/L	49.6		71.0	20-150			
Surrogate: 13C2-6:2FTS	35.3		ng/L	49.6		71.2	20-150			
Surrogate: 13C2-8:2FTS	35.3		ng/L	49.6		71.3	20-150			
Surrogate: 13C8-PFOA	18.1		ng/L	24.8		72.9	20-150			
Surrogate: D3-NMeFOSA	16.9		ng/L	24.8		68.2	20-150			
Surrogate: D5-NEtFOSA	17.0		ng/L	24.8		68.5	20-150			
Surrogate: D3-NMeFOSAA	36.5		ng/L	49.6		73.6	20-150			
Surrogate: D5-NEtFOSAA	35.1		ng/L	49.6		70.8	20-150			
Surrogate: D7-NMeFOSE	169		ng/L	248		68.0	20-150			
Surrogate: D9-NEtFOSE	168		ng/L	248		67.7	20-150			
Surrogate: 13C3-HFPO-DA	80.6		ng/L	99.2		81.3	20-150			

LCS (B342299-BS1)

Prepared: 06/06/23 Analyzed: 06/07/23

Perfluorobutanoic acid (PFBA)	10.9	4.0	ng/L	7.93		138	40-150			S-29, B
Perfluoropentanoic acid (PFPeA)	3.85	2.0	ng/L	3.97		97.0	40-150			
Perfluorohexanoic acid (PFHxA)	2.01	0.99	ng/L	1.98		101	40-150			
Perfluoroheptanoic acid (PFHpA)	1.88	0.99	ng/L	1.98		94.6	40-150			
Perfluorooctanoic acid (PFOA)	1.86	0.99	ng/L	1.98		93.8	40-150			
Perfluorononanoic acid (PFNA)	1.79	0.99	ng/L	1.98		90.2	40-150			
Perfluorodecanoic acid (PFDA)	1.89	0.99	ng/L	1.98		95.1	40-150			
Perfluoroundecanoic acid (PFUnA)	1.83	0.99	ng/L	1.98		92.5	40-150			
Perfluorododecanoic acid (PFDoA)	1.82	0.99	ng/L	1.98		91.8	40-150			
Perfluorotridecanoic acid (PFTTrDA)	1.76	0.99	ng/L	1.98		88.9	40-150			
Perfluorotetradecanoic acid (PFTeDA)	1.76	0.99	ng/L	1.98		88.8	40-150			
Perfluorobutanesulfonic acid (PFBS)	1.54	0.99	ng/L	1.76		87.4	40-150			
Perfluoropentanesulfonic acid (PFPeS)	1.78	0.99	ng/L	1.86		95.4	40-150			
Perfluorohexanesulfonic acid (PFHxS)	1.73	0.99	ng/L	1.81		95.4	40-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.86	0.99	ng/L	1.89		98.3	40-150			
Perfluorooctanesulfonic acid (PFOS)	1.56	0.99	ng/L	1.84		84.7	40-150			
Perfluorononanesulfonic acid (PFNS)	1.78	0.99	ng/L	1.91		93.4	40-150			
Perfluorodecanesulfonic acid (PFDS)	1.68	0.99	ng/L	1.91		87.8	40-150			
Perfluorododecanesulfonic acid (PFDoS)	1.69	0.99	ng/L	1.92		87.9	40-150			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	7.21	4.0	ng/L	7.44		96.9	40-150			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	7.37	4.0	ng/L	7.54		97.9	40-150			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	7.34	4.0	ng/L	7.63		96.1	40-150			
Perfluorooctanesulfonamide (PFOSA)	1.85	0.99	ng/L	1.98		93.2	40-150			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	2.09	0.99	ng/L	1.98		105	40-150			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342299 - Draft Method 1633										
LCS (B342299-BS1)										
Prepared: 06/06/23 Analyzed: 06/07/23										
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.79	0.99	ng/L	1.98		90.3	40-150			
N-MeFOSAA (NMeFOSAA)	1.70	0.99	ng/L	1.98		85.6	40-150			
N-EtFOSAA (NEtFOSAA)	1.94	0.99	ng/L	1.98		97.6	40-150			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	18.4	9.9	ng/L	19.8		92.8	40-150			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	18.5	9.9	ng/L	19.8		93.2	40-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.03	4.0	ng/L	7.93		88.7	40-150			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6.50	4.0	ng/L	7.49		86.9	40-150			
9Cl-PF3ONS (F53B Minor)	6.63	4.0	ng/L	7.44		89.2	40-150			
11Cl-PF3OUdS (F53B Major)	6.40	4.0	ng/L	7.49		85.5	40-150			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	11.8	9.9	ng/L	19.8		59.7	40-150			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	93.1	50	ng/L	99.2		93.9	40-150			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	90.9	50	ng/L	99.2		91.7	40-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	3.61	2.0	ng/L	3.53		102	40-150			
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.794	2.0	ng/L	3.97		20.0	* 40-150			L-03, J
Perfluoro-4-methoxybutanoic acid (PFMBA)	5.20	2.0	ng/L	3.97		131	40-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.80	2.0	ng/L	3.97		95.8	40-150			
Surrogate: 13C4-PFBA	4.36		ng/L	99.2		4.40	* 20-150			S-29
Surrogate: 13C5-PFPeA	24.8		ng/L	49.6		50.0	20-150			
Surrogate: 13C5-PFHxA	17.3		ng/L	24.8		69.6	20-150			
Surrogate: 13C4-PFHpA	17.5		ng/L	24.8		70.5	20-150			
Surrogate: 13C8-PFOA	17.3		ng/L	24.8		69.8	20-150			
Surrogate: 13C9-PFNA	8.75		ng/L	12.4		70.6	20-150			
Surrogate: 13C6-PFDA	8.79		ng/L	12.4		70.9	20-150			
Surrogate: 13C7-PFUnA	8.65		ng/L	12.4		69.8	20-150			
Surrogate: 13C2-PFDoA	8.40		ng/L	12.4		67.8	20-150			
Surrogate: 13C2-PFTeDA	7.76		ng/L	12.4		62.6	20-150			
Surrogate: 13C3-PFBS	17.8		ng/L	24.8		71.7	20-150			
Surrogate: 13C3-PFHxS	17.1		ng/L	24.8		68.9	20-150			
Surrogate: 13C8-PFOS	16.9		ng/L	24.8		68.1	20-150			
Surrogate: 13C2-4:2FTS	31.7		ng/L	49.6		63.8	20-150			
Surrogate: 13C2-6:2FTS	32.3		ng/L	49.6		65.2	20-150			
Surrogate: 13C2-8:2FTS	32.1		ng/L	49.6		64.8	20-150			
Surrogate: 13C8-PFOSA	16.6		ng/L	24.8		67.0	20-150			
Surrogate: D3-NMeFOSA	15.2		ng/L	24.8		61.1	20-150			
Surrogate: D5-NEtFOSA	15.7		ng/L	24.8		63.2	20-150			
Surrogate: D3-NMeFOSAA	32.9		ng/L	49.6		66.4	20-150			
Surrogate: D5-NEtFOSAA	32.5		ng/L	49.6		65.5	20-150			
Surrogate: D7-NMeFOSE	155		ng/L	248		62.7	20-150			
Surrogate: D9-NEtFOSE	149		ng/L	248		60.2	20-150			
Surrogate: 13C3-HFPO-DA	75.1		ng/L	99.2		75.7	20-150			
LCS (B342299-BS2)										
Prepared: 06/06/23 Analyzed: 06/07/23										
Perfluorobutanoic acid (PFBA)	107	4.0	ng/L	95.0		113	40-150			B
Perfluoropentanoic acid (PFPeA)	54.9	2.0	ng/L	47.5		115	40-150			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342299 - Draft Method 1633										
LCS (B342299-BS2)										
Prepared: 06/06/23 Analyzed: 06/07/23										
Perfluorohexanoic acid (PFHxA)	26.9	0.99	ng/L	23.8		113	40-150			
Perfluoroheptanoic acid (PFHpA)	26.1	0.99	ng/L	23.8		110	40-150			
Perfluorooctanoic acid (PFOA)	26.8	0.99	ng/L	23.8		113	40-150			
Perfluorononanoic acid (PFNA)	27.6	0.99	ng/L	23.8		116	40-150			
Perfluorodecanoic acid (PFDA)	26.3	0.99	ng/L	23.8		111	40-150			
Perfluoroundecanoic acid (PFUnA)	26.9	0.99	ng/L	23.8		113	40-150			
Perfluorododecanoic acid (PFDoA)	26.1	0.99	ng/L	23.8		110	40-150			
Perfluorotridecanoic acid (PFTrDA)	26.3	0.99	ng/L	23.8		111	40-150			
Perfluorotetradecanoic acid (PFTeDA)	26.4	0.99	ng/L	23.8		111	40-150			
Perfluorobutanesulfonic acid (PFBS)	24.3	0.99	ng/L	21.1		115	40-150			
Perfluoropentanesulfonic acid (PFPeS)	24.8	0.99	ng/L	22.3		111	40-150			
Perfluorohexanesulfonic acid (PFHxS)	23.4	0.99	ng/L	21.7		108	40-150			
Perfluoroheptanesulfonic acid (PFHpS)	25.2	0.99	ng/L	22.6		111	40-150			
Perfluorooctanesulfonic acid (PFOS)	22.9	0.99	ng/L	22.0		104	40-150			
Perfluorononanesulfonic acid (PFNS)	25.1	0.99	ng/L	22.9		110	40-150			
Perfluorodecanesulfonic acid (PFDS)	22.9	0.99	ng/L	22.9		99.9	40-150			
Perfluorododecanesulfonic acid (PFDoS)	24.0	0.99	ng/L	23.0		104	40-150			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	106	4.0	ng/L	89.1		119	40-150			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	109	4.0	ng/L	90.3		121	40-150			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	106	4.0	ng/L	91.5		116	40-150			
Perfluorooctanesulfonamide (PFOSA)	26.3	0.99	ng/L	23.8		111	40-150			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	27.8	0.99	ng/L	23.8		117	40-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	27.7	0.99	ng/L	23.8		117	40-150			
N-MeFOSAA (NMeFOSAA)	28.4	0.99	ng/L	23.8		120	40-150			
N-EtFOSAA (NEtFOSAA)	26.9	0.99	ng/L	23.8		113	40-150			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	278	9.9	ng/L	238		117	40-150			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	272	9.9	ng/L	238		115	40-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	107	4.0	ng/L	95.0		112	40-150			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	98.5	4.0	ng/L	89.7		110	40-150			
9Cl-PF3ONS (F53B Minor)	96.6	4.0	ng/L	89.1		108	40-150			
11Cl-PF3OUDS (F53B Major)	96.3	4.0	ng/L	89.7		107	40-150			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	252	9.9	ng/L	238		106	40-150			
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	1240	49	ng/L	1190		105	40-150			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1160	49	ng/L	1190		97.4	40-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	46.6	2.0	ng/L	42.3		110	40-150			
Perfluoro-3-methoxypropanoic acid (PFMPA)	51.7	2.0	ng/L	47.5		109	40-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	54.2	2.0	ng/L	47.5		114	40-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	52.5	2.0	ng/L	47.5		111	40-150			
Surrogate: 13C4-PFBA	73.3		ng/L	99.0		74.1	20-150			
Surrogate: 13C5-PFPeA	36.3		ng/L	49.5		73.3	20-150			
Surrogate: 13C5-PFHxA	18.3		ng/L	24.7		73.9	20-150			

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QUALITY CONTROL
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342299 - Draft Method 1633
LCS (B342299-BS2)

Prepared: 06/06/23 Analyzed: 06/07/23

Surrogate: 13C4-PFHpA	18.4		ng/L	24.7		74.5	20-150			
Surrogate: 13C8-PFOA	18.2		ng/L	24.7		73.6	20-150			
Surrogate: 13C9-PFNA	8.86		ng/L	12.4		71.6	20-150			
Surrogate: 13C6-PFDA	8.87		ng/L	12.4		71.7	20-150			
Surrogate: 13C7-PFUnA	8.41		ng/L	12.4		68.0	20-150			
Surrogate: 13C2-PFDoA	8.43		ng/L	12.4		68.1	20-150			
Surrogate: 13C2-PFTeDA	7.99		ng/L	12.4		64.6	20-150			
Surrogate: 13C3-PFBS	18.2		ng/L	24.7		73.7	20-150			
Surrogate: 13C3-PFHxS	18.2		ng/L	24.7		73.6	20-150			
Surrogate: 13C8-PFOS	17.6		ng/L	24.7		71.3	20-150			
Surrogate: 13C2-4:2FTS	35.4		ng/L	49.5		71.4	20-150			
Surrogate: 13C2-6:2FTS	34.9		ng/L	49.5		70.6	20-150			
Surrogate: 13C2-8:2FTS	34.3		ng/L	49.5		69.2	20-150			
Surrogate: 13C8-PFOSA	16.7		ng/L	24.7		67.4	20-150			
Surrogate: D3-NMeFOSA	15.6		ng/L	24.7		62.9	20-150			
Surrogate: D5-NEtFOSA	15.6		ng/L	24.7		63.1	20-150			
Surrogate: D3-NMeFOSAA	33.8		ng/L	49.5		68.2	20-150			
Surrogate: D5-NEtFOSAA	32.6		ng/L	49.5		65.9	20-150			
Surrogate: D7-NMeFOSE	161		ng/L	247		64.9	20-150			
Surrogate: D9-NEtFOSE	158		ng/L	247		63.7	20-150			
Surrogate: 13C3-HFPO-DA	74.4		ng/L	99.0		75.2	20-150			

Matrix Spike (B342299-MS1)

Source: 23E3549-05

Prepared: 06/06/23 Analyzed: 06/07/23

Perfluorobutanoic acid (PFBA)	109	3.8	ng/L	90.3	1.42	119	40-150			B
Perfluoropentanoic acid (PFPeA)	54.6	1.9	ng/L	45.1	0.732	119	40-150			
Perfluorohexanoic acid (PFHxA)	27.2	0.94	ng/L	22.6	0.340	119	40-150			
Perfluoroheptanoic acid (PFHpA)	26.0	0.94	ng/L	22.6	0.405	113	40-150			
Perfluorooctanoic acid (PFOA)	27.2	0.94	ng/L	22.6	0.543	118	40-150			
Perfluorononanoic acid (PFNA)	27.3	0.94	ng/L	22.6	ND	121	40-150			
Perfluorodecanoic acid (PFDA)	27.1	0.94	ng/L	22.6	ND	120	40-150			
Perfluoroundecanoic acid (PFUnA)	26.4	0.94	ng/L	22.6	ND	117	40-150			
Perfluorododecanoic acid (PFDoA)	26.5	0.94	ng/L	22.6	ND	117	40-150			
Perfluorotridecanoic acid (PFTrDA)	24.3	0.94	ng/L	22.6	ND	108	40-150			
Perfluorotetradecanoic acid (PFTeDA)	26.3	0.94	ng/L	22.6	ND	117	40-150			
Perfluorobutanesulfonic acid (PFBS)	24.3	0.94	ng/L	20.0	0.434	119	40-150			
Perfluoropentanesulfonic acid (PFPeS)	25.0	0.94	ng/L	21.2	ND	118	40-150			
Perfluorohexanesulfonic acid (PFHxS)	23.6	0.94	ng/L	20.6	0.345	113	40-150			
Perfluoroheptanesulfonic acid (PFHpS)	24.9	0.94	ng/L	21.5	ND	116	40-150			
Perfluorooctanesulfonic acid (PFOS)	23.7	0.94	ng/L	20.9	ND	113	40-150			
Perfluorononanesulfonic acid (PFNS)	24.2	0.94	ng/L	21.7	ND	111	40-150			
Perfluorodecanesulfonic acid (PFDS)	22.1	0.94	ng/L	21.8	ND	102	40-150			
Perfluorododecanesulfonic acid (PFDoS)	19.8	0.94	ng/L	21.9	ND	90.5	40-150			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	104	3.8	ng/L	84.6	ND	123	40-150			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	108	3.8	ng/L	85.7	ND	126	40-150			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	106	3.8	ng/L	86.9	ND	122	40-150			
Perfluorooctanesulfonamide (PFOSA)	26.4	0.94	ng/L	22.6	ND	117	40-150			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	25.7	0.94	ng/L	22.6	ND	114	40-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	25.9	0.94	ng/L	22.6	ND	115	40-150			
N-MeFOSAA (NMeFOSAA)	29.2	0.94	ng/L	22.6	ND	129	40-150			

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QUALITY CONTROL
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342299 - Draft Method 1633

Matrix Spike (B342299-MS1)		Source: 23E3549-05		Prepared: 06/06/23 Analyzed: 06/07/23						
N-EtFOSAA (NEtFOSAA)	26.8	0.94	ng/L	22.6	ND	119	40-150			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	264	9.4	ng/L	226	ND	117	40-150			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	264	9.4	ng/L	226	ND	117	40-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	105	3.8	ng/L	90.3	ND	116	40-150			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	98.9	3.8	ng/L	85.2	ND	116	40-150			
9Cl-PF3ONS (F53B Minor)	94.9	3.8	ng/L	84.6	ND	112	40-150			
11Cl-PF3OUDS (F53B Major)	86.8	3.8	ng/L	85.2	ND	102	40-150			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	238	9.4	ng/L	226	ND	106	40-150			
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA) (5:3FTCA)	1180	47	ng/L	1130	ND	105	40-150			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1070	47	ng/L	1130	ND	95.2	40-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	46.6	1.9	ng/L	40.2	ND	116	40-150			
Perfluoro-3-methoxypropanoic acid (PFMPA)	47.2	1.9	ng/L	45.1	ND	104	40-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	52.3	1.9	ng/L	45.1	ND	116	40-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50.0	1.9	ng/L	45.1	ND	111	40-150			
Surrogate: 13C4-PFBA	31.0		ng/L	94.0		33.0	20-150			
Surrogate: 13C5-PFPeA	32.3		ng/L	47.0		68.7	20-150			
Surrogate: 13C5-PFHxA	15.9		ng/L	23.5		67.7	20-150			
Surrogate: 13C4-PFHpA	16.1		ng/L	23.5		68.6	20-150			
Surrogate: 13C8-PFOA	15.4		ng/L	23.5		65.6	20-150			
Surrogate: 13C9-PFNA	7.67		ng/L	11.8		65.2	20-150			
Surrogate: 13C6-PFDA	7.58		ng/L	11.8		64.5	20-150			
Surrogate: 13C7-PFUnA	7.63		ng/L	11.8		64.9	20-150			
Surrogate: 13C2-PFDoA	7.20		ng/L	11.8		61.3	20-150			
Surrogate: 13C2-PFTeDA	5.84		ng/L	11.8		49.7	20-150			
Surrogate: 13C3-PFBS	16.1		ng/L	23.5		68.6	20-150			
Surrogate: 13C3-PFHxS	15.7		ng/L	23.5		66.7	20-150			
Surrogate: 13C8-PFOS	15.5		ng/L	23.5		66.0	20-150			
Surrogate: 13C2-4:2FTS	36.5		ng/L	47.0		77.7	20-150			
Surrogate: 13C2-6:2FTS	32.8		ng/L	47.0		69.7	20-150			
Surrogate: 13C2-8:2FTS	30.0		ng/L	47.0		63.9	20-150			
Surrogate: 13C8-PFOA	14.8		ng/L	23.5		62.8	20-150			
Surrogate: D3-NMeFOSA	12.6		ng/L	23.5		53.8	20-150			
Surrogate: D5-NEtFOSA	11.9		ng/L	23.5		50.8	20-150			
Surrogate: D3-NMeFOSAA	27.6		ng/L	47.0		58.6	20-150			
Surrogate: D5-NEtFOSAA	27.9		ng/L	47.0		59.3	20-150			
Surrogate: D7-NMeFOSE	99.2		ng/L	235		42.2	20-150			
Surrogate: D9-NEtFOSE	78.6		ng/L	235		33.4	20-150			
Surrogate: 13C3-HFPO-DA	63.3		ng/L	94.0		67.3	20-150			

Matrix Spike Dup (B342299-MSD1)		Source: 23E3549-05		Prepared: 06/06/23 Analyzed: 06/07/23						
Perfluorobutanoic acid (PFBA)	106	3.9	ng/L	92.5	1.42	113	40-150	3.03	30	B
Perfluoropentanoic acid (PFPeA)	52.5	1.9	ng/L	46.2	0.732	112	40-150	4.00	30	
Perfluorohexanoic acid (PFHxA)	26.2	0.96	ng/L	23.1	0.340	112	40-150	3.60	30	
Perfluoroheptanoic acid (PFHpA)	26.0	0.96	ng/L	23.1	0.405	111	40-150	0.0890	30	
Perfluorooctanoic acid (PFOA)	25.9	0.96	ng/L	23.1	0.543	110	40-150	5.01	30	

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342299 - Draft Method 1633										
Matrix Spike Dup (B342299-MSD1)	Source: 23E3549-05			Prepared: 06/06/23 Analyzed: 06/07/23						
Perfluorononanoic acid (PFNA)	27.2	0.96	ng/L	23.1	ND	118	40-150	0.0248	30	
Perfluorodecanoic acid (PFDA)	25.5	0.96	ng/L	23.1	ND	110	40-150	6.38	30	
Perfluoroundecanoic acid (PFUnA)	24.8	0.96	ng/L	23.1	ND	107	40-150	6.15	30	
Perfluorododecanoic acid (PFDoA)	25.8	0.96	ng/L	23.1	ND	112	40-150	2.53	30	
Perfluorotridecanoic acid (PFTrDA)	24.2	0.96	ng/L	23.1	ND	105	40-150	0.291	30	
Perfluorotetradecanoic acid (PFTeDA)	25.3	0.96	ng/L	23.1	ND	110	40-150	3.87	30	
Perfluorobutanesulfonic acid (PFBS)	23.1	0.96	ng/L	20.5	0.434	110	40-150	5.05	30	
Perfluoropentanesulfonic acid (PFPeS)	24.5	0.96	ng/L	21.7	ND	113	40-150	1.89	30	
Perfluorohexanesulfonic acid (PFHxS)	21.2	0.96	ng/L	21.2	0.345	98.6	40-150	10.8	30	
Perfluoroheptanesulfonic acid (PFHpS)	24.1	0.96	ng/L	22.0	ND	109	40-150	3.25	30	
Perfluorooctanesulfonic acid (PFOS)	21.8	0.96	ng/L	21.4	ND	102	40-150	8.19	30	
Perfluorononanesulfonic acid (PFNS)	22.7	0.96	ng/L	22.3	ND	102	40-150	6.37	30	
Perfluorodecanesulfonic acid (PFDS)	21.1	0.96	ng/L	22.3	ND	94.5	40-150	4.72	30	
Perfluorododecanesulfonic acid (PFDoS)	18.2	0.96	ng/L	22.4	ND	81.2	40-150	8.51	30	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	103	3.9	ng/L	86.7	ND	119	40-150	1.04	30	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	103	3.9	ng/L	87.9	ND	118	40-150	4.19	30	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	99.8	3.9	ng/L	89.0	ND	112	40-150	5.66	30	
Perfluorooctanesulfonamide (PFOSA)	25.1	0.96	ng/L	23.1	ND	108	40-150	5.39	30	
N-methyl perfluorooctanesulfonamide (NMeFOSA)	26.1	0.96	ng/L	23.1	ND	113	40-150	1.48	30	
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	25.7	0.96	ng/L	23.1	ND	111	40-150	0.478	30	
N-MeFOSAA (NMeFOSAA)	28.4	0.96	ng/L	23.1	ND	123	40-150	2.51	30	
N-EtFOSAA (NEtFOSAA)	25.8	0.96	ng/L	23.1	ND	112	40-150	3.81	30	
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	256	9.6	ng/L	231	ND	111	40-150	3.06	30	
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	251	9.6	ng/L	231	ND	108	40-150	5.06	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	100	3.9	ng/L	92.5	ND	108	40-150	4.68	30	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	92.6	3.9	ng/L	87.3	ND	106	40-150	6.61	30	
9Cl-PF3ONS (F53B Minor)	88.3	3.9	ng/L	86.7	ND	102	40-150	7.27	30	
11Cl-PF3OUdS (F53B Major)	83.1	3.9	ng/L	87.3	ND	95.3	40-150	4.28	30	
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	253	9.6	ng/L	231	ND	109	40-150	5.94	30	
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1230	48	ng/L	1160	ND	106	40-150	3.46	30	
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1120	48	ng/L	1160	ND	96.5	40-150	3.72	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	45.8	1.9	ng/L	41.2	ND	111	40-150	1.55	30	
Perfluoro-3-methoxypropanoic acid (PFMPA)	48.1	1.9	ng/L	46.2	ND	104	40-150	1.92	30	
Perfluoro-4-methoxybutanoic acid (PFMBA)	52.3	1.9	ng/L	46.2	ND	113	40-150	0.0346	30	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	50.5	1.9	ng/L	46.2	ND	109	40-150	0.982	30	
Surrogate: 13C4-PFBA	36.6		ng/L	96.3		38.0	20-150			
Surrogate: 13C5-PFPeA	35.5		ng/L	48.2		73.7	20-150			
Surrogate: 13C5-PFHxA	17.7		ng/L	24.1		73.5	20-150			
Surrogate: 13C4-PFHpA	17.3		ng/L	24.1		71.8	20-150			
Surrogate: 13C8-PFOA	16.4		ng/L	24.1		68.3	20-150			
Surrogate: 13C9-PFNA	8.18		ng/L	12.0		67.9	20-150			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342299 - Draft Method 1633
Matrix Spike Dup (B342299-MSD1)
Source: 23E3549-05

Prepared: 06/06/23 Analyzed: 06/07/23

Surrogate: 13C6-PFDA	8.29		ng/L	12.0		68.9	20-150			
Surrogate: 13C7-PFUnA	8.09		ng/L	12.0		67.2	20-150			
Surrogate: 13C2-PFDoA	7.49		ng/L	12.0		62.2	20-150			
Surrogate: 13C2-PFTeDA	6.37		ng/L	12.0		52.9	20-150			
Surrogate: 13C3-PFBS	17.2		ng/L	24.1		71.5	20-150			
Surrogate: 13C3-PFHxS	16.9		ng/L	24.1		70.2	20-150			
Surrogate: 13C8-PFOS	16.8		ng/L	24.1		69.6	20-150			
Surrogate: 13C2-4:2FTS	37.7		ng/L	48.2		78.2	20-150			
Surrogate: 13C2-6:2FTS	34.0		ng/L	48.2		70.6	20-150			
Surrogate: 13C2-8:2FTS	31.6		ng/L	48.2		65.6	20-150			
Surrogate: 13C8-PFOSA	15.5		ng/L	24.1		64.3	20-150			
Surrogate: D3-NMeFOSA	12.9		ng/L	24.1		53.4	20-150			
Surrogate: D5-NEtFOSA	12.6		ng/L	24.1		52.2	20-150			
Surrogate: D3-NMeFOSAA	30.0		ng/L	48.2		62.4	20-150			
Surrogate: D5-NEtFOSAA	28.4		ng/L	48.2		58.9	20-150			
Surrogate: D7-NMeFOSE	110		ng/L	241		45.8	20-150			
Surrogate: D9-NEtFOSE	89.9		ng/L	241		37.3	20-150			
Surrogate: 13C3-HFPO-DA	71.9		ng/L	96.3		74.7	20-150			

Batch B342480 - Draft Method 1633
Blank (B342480-BLK1)

Prepared: 06/09/23 Analyzed: 06/15/23

Perfluorobutanoic acid (PFBA)	ND	0.80	µg/kg wet
Perfluoropentanoic acid (PFPeA)	ND	0.40	µg/kg wet
Perfluorohexanoic acid (PFHxA)	ND	0.20	µg/kg wet
Perfluoroheptanoic acid (PFHpA)	ND	0.20	µg/kg wet
Perfluorooctanoic acid (PFOA)	ND	0.20	µg/kg wet
Perfluorononanoic acid (PFNA)	ND	0.20	µg/kg wet
Perfluorodecanoic acid (PFDA)	ND	0.20	µg/kg wet
Perfluoroundecanoic acid (PFUnA)	ND	0.20	µg/kg wet
Perfluorododecanoic acid (PFDoA)	ND	0.20	µg/kg wet
Perfluorotridecanoic acid (PFTTrDA)	ND	0.20	µg/kg wet
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	µg/kg wet
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	µg/kg wet
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	µg/kg wet
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	µg/kg wet
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	µg/kg wet
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	µg/kg wet
Perfluorononanesulfonic acid (PFNS)	ND	0.20	µg/kg wet
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	µg/kg wet
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	µg/kg wet
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.80	µg/kg wet
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.80	µg/kg wet
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.80	µg/kg wet
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	µg/kg wet
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.20	µg/kg wet
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	µg/kg wet
N-MeFOSAA (NMeFOSAA)	ND	0.20	µg/kg wet
N-EtFOSAA (NEtFOSAA)	ND	0.20	µg/kg wet

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QUALITY CONTROL
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342480 - Draft Method 1633
Blank (B342480-BLK1)

Prepared: 06/09/23 Analyzed: 06/15/23

N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	2.0	µg/kg wet							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	µg/kg wet							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.80	µg/kg wet							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.80	µg/kg wet							
9Cl-PF3ONS (F53B Minor)	ND	0.80	µg/kg wet							
11Cl-PF3OUdS (F53B Major)	ND	0.80	µg/kg wet							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	2.0	µg/kg wet							
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA) (5:3FTCA)	ND	9.9	µg/kg wet							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	9.9	µg/kg wet							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	0.40	µg/kg wet							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	µg/kg wet							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	µg/kg wet							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	µg/kg wet							
Surrogate: 13C4-PFBA	8.56		µg/kg wet	9.94		86.1	20-150			
Surrogate: 13C5-PFPeA	4.16		µg/kg wet	4.97		83.7	20-150			
Surrogate: 13C5-PFHxA	2.09		µg/kg wet	2.49		84.0	20-150			
Surrogate: 13C4-PFHpA	2.06		µg/kg wet	2.49		83.1	20-150			
Surrogate: 13C8-PFOA	2.09		µg/kg wet	2.49		84.2	20-150			
Surrogate: 13C9-PFNA	1.04		µg/kg wet	1.24		83.6	20-150			
Surrogate: 13C6-PFDA	1.03		µg/kg wet	1.24		83.1	20-150			
Surrogate: 13C7-PFUnA	1.02		µg/kg wet	1.24		82.3	20-150			
Surrogate: 13C2-PFDoA	1.00		µg/kg wet	1.24		80.6	20-150			
Surrogate: 13C2-PFTeDA	1.01		µg/kg wet	1.24		81.1	20-150			
Surrogate: 13C3-PFBS	2.08		µg/kg wet	2.49		83.5	20-150			
Surrogate: 13C3-PFHxS	2.09		µg/kg wet	2.49		84.2	20-150			
Surrogate: 13C8-PFOS	2.10		µg/kg wet	2.49		84.4	20-150			
Surrogate: 13C2-4:2FTS	3.73		µg/kg wet	4.97		75.0	20-150			
Surrogate: 13C2-6:2FTS	4.05		µg/kg wet	4.97		81.5	20-150			
Surrogate: 13C2-8:2FTS	4.14		µg/kg wet	4.97		83.3	20-150			
Surrogate: 13C8-PFOSA	1.92		µg/kg wet	2.49		77.2	20-150			
Surrogate: D3-NMeFOSA	1.64		µg/kg wet	2.49		65.9	20-150			
Surrogate: D5-NEtFOSA	1.47		µg/kg wet	2.49		59.0	20-150			
Surrogate: D3-NMeFOSAA	3.95		µg/kg wet	4.97		79.4	20-150			
Surrogate: D5-NEtFOSAA	4.07		µg/kg wet	4.97		81.9	20-150			
Surrogate: D7-NMeFOSE	18.7		µg/kg wet	24.9		75.4	20-150			
Surrogate: D9-NEtFOSE	18.4		µg/kg wet	24.9		74.2	20-150			
Surrogate: 13C3-HFPO-DA	8.72		µg/kg wet	9.94		87.7	20-150			

LCS (B342480-BS1)

Prepared: 06/09/23 Analyzed: 06/15/23

Perfluorobutanoic acid (PFBA)	0.717	0.79	µg/kg wet	0.793		90.4	40-150			J
Perfluoropentanoic acid (PFPeA)	0.358	0.40	µg/kg wet	0.397		90.4	40-150			J
Perfluorohexanoic acid (PFHxA)	0.190	0.20	µg/kg wet	0.198		95.9	40-150			J
Perfluoroheptanoic acid (PFHpA)	0.167	0.20	µg/kg wet	0.198		84.3	40-150			J
Perfluorooctanoic acid (PFOA)	0.182	0.20	µg/kg wet	0.198		91.9	40-150			J
Perfluorononanoic acid (PFNA)	0.164	0.20	µg/kg wet	0.198		82.7	40-150			J

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342480 - Draft Method 1633										
LCS (B342480-BS1)										
Prepared: 06/09/23 Analyzed: 06/15/23										
Perfluorodecanoic acid (PFDA)	0.156	0.20	µg/kg wet	0.198		78.6	40-150			J
Perfluoroundecanoic acid (PFUnA)	0.175	0.20	µg/kg wet	0.198		88.4	40-150			J
Perfluorododecanoic acid (PFDoA)	0.168	0.20	µg/kg wet	0.198		84.7	40-150			J
Perfluorotridecanoic acid (PFTrDA)	0.172	0.20	µg/kg wet	0.198		86.5	40-150			J
Perfluorotetradecanoic acid (PFTeDA)	0.181	0.20	µg/kg wet	0.198		91.4	40-150			J
Perfluorobutanesulfonic acid (PFBS)	0.150	0.20	µg/kg wet	0.176		85.3	40-150			J
Perfluoropentanesulfonic acid (PFPeS)	0.168	0.20	µg/kg wet	0.186		90.0	40-150			J
Perfluorohexanesulfonic acid (PFHxS)	0.153	0.20	µg/kg wet	0.181		84.5	40-150			J
Perfluoroheptanesulfonic acid (PFHpS)	0.155	0.20	µg/kg wet	0.189		81.9	40-150			J
Perfluorooctanesulfonic acid (PFOS)	0.179	0.20	µg/kg wet	0.184		97.1	40-150			J
Perfluorononanesulfonic acid (PFNS)	0.155	0.20	µg/kg wet	0.191		81.1	40-150			J
Perfluorodecanesulfonic acid (PFDS)	0.144	0.20	µg/kg wet	0.191		75.5	40-150			J
Perfluorododecanesulfonic acid (PFDoS)	0.158	0.20	µg/kg wet	0.192		82.1	40-150			J
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.666	0.79	µg/kg wet	0.744		89.5	40-150			J
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	0.756	0.79	µg/kg wet	0.754		100	40-150			J
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.645	0.79	µg/kg wet	0.764		84.5	40-150			J
Perfluorooctanesulfonamide (PFOSA)	0.177	0.20	µg/kg wet	0.198		89.1	40-150			J
N-methyl perfluorooctanesulfonamide (NMeFOSA)	0.156	0.20	µg/kg wet	0.198		78.7	40-150			J
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	0.178	0.20	µg/kg wet	0.198		89.7	40-150			J
N-MeFOSAA (NMeFOSAA)	0.169	0.20	µg/kg wet	0.198		85.2	40-150			J
N-EtFOSAA (NEtFOSAA)	0.176	0.20	µg/kg wet	0.198		88.7	40-150			J
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	1.69	2.0	µg/kg wet	1.98		85.2	40-150			J
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	1.74	2.0	µg/kg wet	1.98		87.8	40-150			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.707	0.79	µg/kg wet	0.793		89.1	40-150			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.664	0.79	µg/kg wet	0.749		88.6	40-150			J
9Cl-PF3ONS (F53B Minor)	0.654	0.79	µg/kg wet	0.744		88.0	40-150			J
11Cl-PF3OUDS (F53B Major)	0.642	0.79	µg/kg wet	0.749		85.8	40-150			J
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	1.61	2.0	µg/kg wet	1.98		81.3	40-150			J
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	7.97	9.9	µg/kg wet	9.92		80.4	40-150			J
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	7.60	9.9	µg/kg wet	9.92		76.6	40-150			J
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	0.282	0.40	µg/kg wet	0.353		79.9	40-150			J
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.326	0.40	µg/kg wet	0.397		82.3	40-150			J
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.328	0.40	µg/kg wet	0.397		82.6	40-150			J
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.342	0.40	µg/kg wet	0.397		86.1	40-150			J
Surrogate: 13C4-PFBA	7.40		µg/kg wet	9.92		74.6	20-150			
Surrogate: 13C5-PFPeA	3.60		µg/kg wet	4.96		72.5	20-150			
Surrogate: 13C5-PFHxA	1.80		µg/kg wet	2.48		72.6	20-150			
Surrogate: 13C4-PFHpA	1.78		µg/kg wet	2.48		71.6	20-150			
Surrogate: 13C8-PFOA	1.79		µg/kg wet	2.48		72.3	20-150			
Surrogate: 13C9-PFNA	0.909		µg/kg wet	1.24		73.3	20-150			
Surrogate: 13C6-PFDA	0.922		µg/kg wet	1.24		74.4	20-150			

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QUALITY CONTROL
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342480 - Draft Method 1633
LCS (B342480-BS1)

Prepared: 06/09/23 Analyzed: 06/15/23

Surrogate: 13C7-PFUnA	0.873		µg/kg wet	1.24		70.4	20-150			
Surrogate: 13C2-PFDoA	0.853		µg/kg wet	1.24		68.8	20-150			
Surrogate: 13C2-PFTeDA	0.856		µg/kg wet	1.24		69.0	20-150			
Surrogate: 13C3-PFBS	1.85		µg/kg wet	2.48		74.7	20-150			
Surrogate: 13C3-PFHxS	1.81		µg/kg wet	2.48		72.9	20-150			
Surrogate: 13C8-PFOS	1.80		µg/kg wet	2.48		72.8	20-150			
Surrogate: 13C2-4:2FTS	3.23		µg/kg wet	4.96		65.2	20-150			
Surrogate: 13C2-6:2FTS	3.47		µg/kg wet	4.96		70.0	20-150			
Surrogate: 13C2-8:2FTS	3.45		µg/kg wet	4.96		69.6	20-150			
Surrogate: 13C8-PFOA	1.56		µg/kg wet	2.48		63.0	20-150			
Surrogate: D3-NMeFOSA	1.29		µg/kg wet	2.48		52.0	20-150			
Surrogate: D5-NEtFOSA	1.18		µg/kg wet	2.48		47.8	20-150			
Surrogate: D3-NMeFOSAA	3.38		µg/kg wet	4.96		68.2	20-150			
Surrogate: D5-NEtFOSAA	3.26		µg/kg wet	4.96		65.8	20-150			
Surrogate: D7-NMeFOSE	15.6		µg/kg wet	24.8		63.1	20-150			
Surrogate: D9-NEtFOSE	15.2		µg/kg wet	24.8		61.2	20-150			
Surrogate: 13C3-HFPO-DA	7.35		µg/kg wet	9.92		74.1	20-150			

LCS (B342480-BS2)

Prepared: 06/09/23 Analyzed: 06/15/23

Perfluorobutanoic acid (PFBA)	9.29	0.80	µg/kg wet	9.57		97.1	40-150			
Perfluoropentanoic acid (PFPeA)	4.68	0.40	µg/kg wet	4.79		97.7	40-150			
Perfluorohexanoic acid (PFHxA)	2.37	0.20	µg/kg wet	2.39		99.2	40-150			
Perfluoroheptanoic acid (PFHpA)	2.30	0.20	µg/kg wet	2.39		96.0	40-150			
Perfluorooctanoic acid (PFOA)	2.30	0.20	µg/kg wet	2.39		96.1	40-150			
Perfluorononanoic acid (PFNA)	2.33	0.20	µg/kg wet	2.39		97.4	40-150			
Perfluorodecanoic acid (PFDA)	2.34	0.20	µg/kg wet	2.39		98.0	40-150			
Perfluoroundecanoic acid (PFUnA)	2.29	0.20	µg/kg wet	2.39		95.6	40-150			
Perfluorododecanoic acid (PFDoA)	2.36	0.20	µg/kg wet	2.39		98.8	40-150			
Perfluorotridecanoic acid (PFTTrDA)	2.32	0.20	µg/kg wet	2.39		97.0	40-150			
Perfluorotetradecanoic acid (PFTeDA)	2.33	0.20	µg/kg wet	2.39		97.4	40-150			
Perfluorobutanesulfonic acid (PFBS)	2.08	0.20	µg/kg wet	2.12		98.1	40-150			
Perfluoropentanesulfonic acid (PFPeS)	2.19	0.20	µg/kg wet	2.25		97.6	40-150			
Perfluorohexanesulfonic acid (PFHxS)	2.08	0.20	µg/kg wet	2.19		94.8	40-150			
Perfluoroheptanesulfonic acid (PFHpS)	2.03	0.20	µg/kg wet	2.28		89.0	40-150			
Perfluorooctanesulfonic acid (PFOS)	2.05	0.20	µg/kg wet	2.22		92.3	40-150			
Perfluorononanesulfonic acid (PFNS)	2.07	0.20	µg/kg wet	2.30		90.0	40-150			
Perfluorodecanesulfonic acid (PFDS)	2.00	0.20	µg/kg wet	2.31		86.5	40-150			
Perfluorododecanesulfonic acid (PFDoS)	2.05	0.20	µg/kg wet	2.32		88.2	40-150			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	9.24	0.80	µg/kg wet	8.97		103	40-150			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	9.48	0.80	µg/kg wet	9.09		104	40-150			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	9.46	0.80	µg/kg wet	9.21		103	40-150			
Perfluorooctanesulfonamide (PFOSA)	2.30	0.20	µg/kg wet	2.39		95.9	40-150			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	2.16	0.20	µg/kg wet	2.39		90.3	40-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.16	0.20	µg/kg wet	2.39		90.1	40-150			
N-MeFOSAA (NMeFOSAA)	2.24	0.20	µg/kg wet	2.39		93.7	40-150			
N-EtFOSAA (NEtFOSAA)	2.30	0.20	µg/kg wet	2.39		96.1	40-150			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	23.0	2.0	µg/kg wet	23.9		96.1	40-150			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	23.2	2.0	µg/kg wet	23.9		97.0	40-150			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342480 - Draft Method 1633
LCS (B342480-BS2)

Prepared: 06/09/23 Analyzed: 06/15/23

Hexafluoropropylene oxide dimer acid (HFPO-DA)	10.1	0.80	µg/kg wet	9.57		105	40-150			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.07	0.80	µg/kg wet	9.03		100	40-150			
9Cl-PF3ONS (F53B Minor)	9.35	0.80	µg/kg wet	8.97		104	40-150			
11Cl-PF3OUdS (F53B Major)	9.49	0.80	µg/kg wet	9.03		105	40-150			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	22.4	2.0	µg/kg wet	23.9		93.5	40-150			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	117	10	µg/kg wet	120		97.4	40-150			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	111	10	µg/kg wet	120		93.1	40-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.27	0.40	µg/kg wet	4.26		100	40-150			
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.68	0.40	µg/kg wet	4.79		97.8	40-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.79	0.40	µg/kg wet	4.79		100	40-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.96	0.40	µg/kg wet	4.79		104	40-150			
Surrogate: 13C4-PFBA	7.55		µg/kg wet	9.97		75.7	20-150			
Surrogate: 13C5-PFPeA	3.70		µg/kg wet	4.99		74.3	20-150			
Surrogate: 13C5-PFHxA	1.84		µg/kg wet	2.49		73.7	20-150			
Surrogate: 13C4-PFHpA	1.83		µg/kg wet	2.49		73.5	20-150			
Surrogate: 13C8-PFOA	1.89		µg/kg wet	2.49		75.9	20-150			
Surrogate: 13C9-PFNA	0.931		µg/kg wet	1.25		74.7	20-150			
Surrogate: 13C6-PFDA	0.919		µg/kg wet	1.25		73.7	20-150			
Surrogate: 13C7-PFUnA	0.928		µg/kg wet	1.25		74.4	20-150			
Surrogate: 13C2-PFDoA	0.915		µg/kg wet	1.25		73.4	20-150			
Surrogate: 13C2-PFTeDA	0.899		µg/kg wet	1.25		72.1	20-150			
Surrogate: 13C3-PFBS	1.83		µg/kg wet	2.49		73.4	20-150			
Surrogate: 13C3-PFHxS	1.81		µg/kg wet	2.49		72.5	20-150			
Surrogate: 13C8-PFOS	1.89		µg/kg wet	2.49		75.6	20-150			
Surrogate: 13C2-4:2FTS	3.40		µg/kg wet	4.99		68.2	20-150			
Surrogate: 13C2-6:2FTS	3.66		µg/kg wet	4.99		73.3	20-150			
Surrogate: 13C2-8:2FTS	3.67		µg/kg wet	4.99		73.6	20-150			
Surrogate: 13C8-PFOSA	1.68		µg/kg wet	2.49		67.5	20-150			
Surrogate: D3-NMeFOSA	1.41		µg/kg wet	2.49		56.4	20-150			
Surrogate: D5-NEtFOSA	1.30		µg/kg wet	2.49		52.3	20-150			
Surrogate: D3-NMeFOSAA	3.56		µg/kg wet	4.99		71.5	20-150			
Surrogate: D5-NEtFOSAA	3.62		µg/kg wet	4.99		72.6	20-150			
Surrogate: D7-NMeFOSE	16.4		µg/kg wet	24.9		65.9	20-150			
Surrogate: D9-NEtFOSE	16.2		µg/kg wet	24.9		65.2	20-150			
Surrogate: 13C3-HFPO-DA	7.33		µg/kg wet	9.97		73.5	20-150			

Matrix Spike (B342480-MS1)
Source: 23E3549-06

Prepared: 06/09/23 Analyzed: 06/15/23

Perfluorobutanoic acid (PFBA)	9.14	0.79	µg/kg dry	9.52	ND	95.9	40-150			
Perfluoropentanoic acid (PFPeA)	4.56	0.40	µg/kg dry	4.76	ND	95.8	40-150			
Perfluorohexanoic acid (PFHxA)	2.34	0.20	µg/kg dry	2.38	0.0142	97.6	40-150			
Perfluoroheptanoic acid (PFHpA)	2.22	0.20	µg/kg dry	2.38	ND	93.1	40-150			
Perfluorooctanoic acid (PFOA)	2.28	0.20	µg/kg dry	2.38	ND	95.9	40-150			
Perfluorononanoic acid (PFNA)	2.26	0.20	µg/kg dry	2.38	ND	94.9	40-150			
Perfluorodecanoic acid (PFDA)	2.17	0.20	µg/kg dry	2.38	ND	91.3	40-150			
Perfluoroundecanoic acid (PFUnA)	2.25	0.20	µg/kg dry	2.38	ND	94.6	40-150			
Perfluorododecanoic acid (PFDoA)	2.26	0.20	µg/kg dry	2.38	ND	95.1	40-150			
Perfluorotridecanoic acid (PFTTrDA)	2.22	0.20	µg/kg dry	2.38	ND	93.2	40-150			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342480 - Draft Method 1633

Matrix Spike (B342480-MS1)		Source: 23E3549-06		Prepared: 06/09/23 Analyzed: 06/15/23						
Perfluorotetradecanoic acid (PFTeDA)	2.28	0.20	µg/kg dry	2.38	ND	95.6	40-150			
Perfluorobutanesulfonic acid (PFBS)	1.99	0.20	µg/kg dry	2.11	ND	94.0	40-150			
Perfluoropentanesulfonic acid (PFPeS)	2.11	0.20	µg/kg dry	2.24	ND	94.2	40-150			
Perfluorohexanesulfonic acid (PFHxS)	1.98	0.20	µg/kg dry	2.18	ND	90.7	40-150			
Perfluoroheptanesulfonic acid (PFHpS)	2.06	0.20	µg/kg dry	2.27	ND	91.0	40-150			
Perfluorooctanesulfonic acid (PFOS)	2.10	0.20	µg/kg dry	2.21	ND	94.9	40-150			
Perfluorononanesulfonic acid (PFNS)	2.15	0.20	µg/kg dry	2.29	ND	94.0	40-150			
Perfluorodecanesulfonic acid (PFDS)	2.02	0.20	µg/kg dry	2.30	ND	87.9	40-150			
Perfluorododecanesulfonic acid (PFDoS)	2.01	0.20	µg/kg dry	2.31	ND	87.0	40-150			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.85	0.79	µg/kg dry	8.93	ND	99.2	40-150			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.93	0.79	µg/kg dry	9.04	ND	98.8	40-150			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	9.11	0.79	µg/kg dry	9.16	ND	99.4	40-150			
Perfluorooctanesulfonamide (PFOSA)	2.22	0.20	µg/kg dry	2.38	ND	93.3	40-150			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	2.10	0.20	µg/kg dry	2.38	ND	88.2	40-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.10	0.20	µg/kg dry	2.38	ND	88.3	40-150			
N-MeFOSAA (NMeFOSAA)	2.30	0.20	µg/kg dry	2.38	ND	96.5	40-150			
N-EtFOSAA (NEtFOSAA)	2.20	0.20	µg/kg dry	2.38	ND	92.5	40-150			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	22.4	2.0	µg/kg dry	23.8	ND	94.2	40-150			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	22.6	2.0	µg/kg dry	23.8	ND	94.9	40-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	8.82	0.79	µg/kg dry	9.52	ND	92.6	40-150			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.05	0.79	µg/kg dry	8.99	ND	89.6	40-150			
9Cl-PF3ONS (F53B Minor)	8.21	0.79	µg/kg dry	8.93	ND	92.0	40-150			
11Cl-PF3OUDS (F53B Major)	8.68	0.79	µg/kg dry	8.99	ND	96.6	40-150			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	17.5	2.0	µg/kg dry	23.8	ND	73.5	40-150			
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	108	9.9	µg/kg dry	119	ND	90.5	40-150			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	106	9.9	µg/kg dry	119	ND	88.8	40-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	3.92	0.40	µg/kg dry	4.24	ND	92.5	40-150			
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.13	0.40	µg/kg dry	4.76	ND	86.8	40-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.27	0.40	µg/kg dry	4.76	ND	89.7	40-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.33	0.40	µg/kg dry	4.76	ND	91.1	40-150			
Surrogate: 13C4-PFBA	7.17		µg/kg dry	9.92		72.3	20-150			
Surrogate: 13C5-PFPeA	3.56		µg/kg dry	4.96		71.8	20-150			
Surrogate: 13C5-PFHxA	1.74		µg/kg dry	2.48		70.3	20-150			
Surrogate: 13C4-PFHpA	1.77		µg/kg dry	2.48		71.2	20-150			
Surrogate: 13C8-PFOA	1.83		µg/kg dry	2.48		73.6	20-150			
Surrogate: 13C9-PFNA	0.897		µg/kg dry	1.24		72.3	20-150			
Surrogate: 13C6-PFDA	0.918		µg/kg dry	1.24		74.1	20-150			
Surrogate: 13C7-PFUnA	0.879		µg/kg dry	1.24		70.9	20-150			
Surrogate: 13C2-PFDoA	0.889		µg/kg dry	1.24		71.7	20-150			
Surrogate: 13C2-PFTeDA	0.840		µg/kg dry	1.24		67.7	20-150			
Surrogate: 13C3-PFBS	1.80		µg/kg dry	2.48		72.6	20-150			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342480 - Draft Method 1633
Matrix Spike (B342480-MS1)
Source: 23E3549-06

Prepared: 06/09/23 Analyzed: 06/15/23

Surrogate: 13C3-PFHxS	1.82		µg/kg dry	2.48		73.2	20-150			
Surrogate: 13C8-PFOS	1.77		µg/kg dry	2.48		71.3	20-150			
Surrogate: 13C2-4:2FTS	3.37		µg/kg dry	4.96		67.9	20-150			
Surrogate: 13C2-6:2FTS	3.76		µg/kg dry	4.96		75.8	20-150			
Surrogate: 13C2-8:2FTS	3.73		µg/kg dry	4.96		75.3	20-150			
Surrogate: 13C8-PFOSA	1.62		µg/kg dry	2.48		65.4	20-150			
Surrogate: D3-NMeFOSA	1.44		µg/kg dry	2.48		58.1	20-150			
Surrogate: D5-NEtFOSA	1.31		µg/kg dry	2.48		53.0	20-150			
Surrogate: D3-NMeFOSAA	3.36		µg/kg dry	4.96		67.8	20-150			
Surrogate: D5-NEtFOSAA	3.37		µg/kg dry	4.96		67.9	20-150			
Surrogate: D7-NMeFOSE	15.6		µg/kg dry	24.8		63.0	20-150			
Surrogate: D9-NEtFOSE	15.1		µg/kg dry	24.8		61.1	20-150			
Surrogate: 13C3-HFPO-DA	7.44		µg/kg dry	9.92		75.0	20-150			

Matrix Spike Dup (B342480-MSD1)
Source: 23E3549-06

Prepared: 06/09/23 Analyzed: 06/15/23

Perfluorobutanoic acid (PFBA)	8.13	0.79	µg/kg dry	9.48	ND	85.8	40-150	11.6	30	
Perfluoropentanoic acid (PFPeA)	4.06	0.39	µg/kg dry	4.74	ND	85.6	40-150	11.6	30	
Perfluorohexanoic acid (PFHxA)	1.97	0.20	µg/kg dry	2.37	0.0142	82.6	40-150	16.9	30	
Perfluoroheptanoic acid (PFHpA)	1.96	0.20	µg/kg dry	2.37	ND	82.5	40-150	12.5	30	
Perfluorooctanoic acid (PFOA)	2.06	0.20	µg/kg dry	2.37	ND	86.8	40-150	10.4	30	
Perfluorononanoic acid (PFNA)	1.93	0.20	µg/kg dry	2.37	ND	81.3	40-150	15.9	30	
Perfluorodecanoic acid (PFDA)	1.99	0.20	µg/kg dry	2.37	ND	84.0	40-150	8.77	30	
Perfluoroundecanoic acid (PFUnA)	2.06	0.20	µg/kg dry	2.37	ND	87.1	40-150	8.76	30	
Perfluorododecanoic acid (PFDoA)	2.07	0.20	µg/kg dry	2.37	ND	87.4	40-150	8.93	30	
Perfluorotridecanoic acid (PFTTrDA)	2.11	0.20	µg/kg dry	2.37	ND	89.1	40-150	4.94	30	
Perfluorotetradecanoic acid (PFTeDA)	2.05	0.20	µg/kg dry	2.37	ND	86.4	40-150	10.5	30	
Perfluorobutanesulfonic acid (PFBS)	1.80	0.20	µg/kg dry	2.10	ND	85.5	40-150	9.91	30	
Perfluoropentanesulfonic acid (PFPeS)	1.89	0.20	µg/kg dry	2.23	ND	84.9	40-150	10.9	30	
Perfluorohexanesulfonic acid (PFHxS)	1.82	0.20	µg/kg dry	2.17	ND	83.8	40-150	8.36	30	
Perfluoroheptanesulfonic acid (PFHpS)	1.96	0.20	µg/kg dry	2.26	ND	86.7	40-150	5.31	30	
Perfluorooctanesulfonic acid (PFOS)	1.88	0.20	µg/kg dry	2.20	ND	85.5	40-150	11.0	30	
Perfluorononanesulfonic acid (PFNS)	1.93	0.20	µg/kg dry	2.28	ND	84.7	40-150	10.8	30	
Perfluorodecanesulfonic acid (PFDS)	1.91	0.20	µg/kg dry	2.29	ND	83.5	40-150	5.51	30	
Perfluorododecanesulfonic acid (PFDoS)	1.95	0.20	µg/kg dry	2.30	ND	85.0	40-150	2.70	30	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	7.99	0.79	µg/kg dry	8.89	ND	89.9	40-150	10.2	30	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	7.69	0.79	µg/kg dry	9.01	ND	85.4	40-150	14.9	30	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	7.66	0.79	µg/kg dry	9.12	ND	84.0	40-150	17.2	30	
Perfluorooctanesulfonamide (PFOSA)	2.03	0.20	µg/kg dry	2.37	ND	85.6	40-150	9.07	30	
N-methyl perfluorooctanesulfonamide (NMeFOSA)	2.04	0.20	µg/kg dry	2.37	ND	86.0	40-150	2.97	30	
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.93	0.20	µg/kg dry	2.37	ND	81.5	40-150	8.52	30	
N-MeFOSAA (NMeFOSAA)	1.93	0.20	µg/kg dry	2.37	ND	81.5	40-150	17.3	30	
N-EtFOSAA (NEtFOSAA)	2.05	0.20	µg/kg dry	2.37	ND	86.4	40-150	7.23	30	
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	20.1	2.0	µg/kg dry	23.7	ND	85.0	40-150	10.7	30	
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	20.3	2.0	µg/kg dry	23.7	ND	85.5	40-150	10.8	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	8.28	0.79	µg/kg dry	9.48	ND	87.3	40-150	6.30	30	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.78	0.79	µg/kg dry	8.95	ND	87.0	40-150	3.39	30	

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342480 - Draft Method 1633
Matrix Spike Dup (B342480-MSD1)
Source: 23E3549-06

Prepared: 06/09/23 Analyzed: 06/15/23

9Cl-PF3ONS (F53B Minor)	8.01	0.79	µg/kg dry	8.89	ND	90.1	40-150	2.55	30	
11Cl-PF3OUdS (F53B Major)	8.47	0.79	µg/kg dry	8.95	ND	94.7	40-150	2.39	30	
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	18.8	2.0	µg/kg dry	23.7	ND	79.4	40-150	7.29	30	
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	96.5	9.9	µg/kg dry	118	ND	81.5	40-150	10.9	30	
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	93.4	9.9	µg/kg dry	118	ND	78.8	40-150	12.3	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	4.07	0.39	µg/kg dry	4.22	ND	96.6	40-150	3.91	30	
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.40	0.39	µg/kg dry	4.74	ND	92.8	40-150	6.17	30	
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.49	0.39	µg/kg dry	4.74	ND	94.7	40-150	5.04	30	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.67	0.39	µg/kg dry	4.74	ND	98.6	40-150	7.54	30	
Surrogate: 13C4-PFBA	7.14		µg/kg dry	9.87		72.3	20-150			
Surrogate: 13C5-PFPeA	3.51		µg/kg dry	4.94		71.1	20-150			
Surrogate: 13C5-PFHxA	1.75		µg/kg dry	2.47		71.0	20-150			
Surrogate: 13C4-PFHpA	1.72		µg/kg dry	2.47		69.8	20-150			
Surrogate: 13C8-PFOA	1.75		µg/kg dry	2.47		70.7	20-150			
Surrogate: 13C9-PFNA	0.910		µg/kg dry	1.23		73.7	20-150			
Surrogate: 13C6-PFDA	0.920		µg/kg dry	1.23		74.6	20-150			
Surrogate: 13C7-PFUnA	0.907		µg/kg dry	1.23		73.5	20-150			
Surrogate: 13C2-PFDoA	0.891		µg/kg dry	1.23		72.2	20-150			
Surrogate: 13C2-PFTeDA	0.898		µg/kg dry	1.23		72.7	20-150			
Surrogate: 13C3-PFBS	1.71		µg/kg dry	2.47		69.1	20-150			
Surrogate: 13C3-PFHxS	1.75		µg/kg dry	2.47		71.1	20-150			
Surrogate: 13C8-PFOS	1.70		µg/kg dry	2.47		69.0	20-150			
Surrogate: 13C2-4:2FTS	3.42		µg/kg dry	4.94		69.3	20-150			
Surrogate: 13C2-6:2FTS	3.79		µg/kg dry	4.94		76.7	20-150			
Surrogate: 13C2-8:2FTS	3.80		µg/kg dry	4.94		76.9	20-150			
Surrogate: 13C8-PFOSA	1.55		µg/kg dry	2.47		62.8	20-150			
Surrogate: D3-NMeFOSA	1.32		µg/kg dry	2.47		53.5	20-150			
Surrogate: D5-NEtFOSA	1.22		µg/kg dry	2.47		49.4	20-150			
Surrogate: D3-NMeFOSAA	3.33		µg/kg dry	4.94		67.5	20-150			
Surrogate: D5-NEtFOSAA	3.33		µg/kg dry	4.94		67.4	20-150			
Surrogate: D7-NMeFOSE	15.5		µg/kg dry	24.7		62.8	20-150			
Surrogate: D9-NEtFOSE	14.9		µg/kg dry	24.7		60.4	20-150			
Surrogate: 13C3-HFPO-DA	7.29		µg/kg dry	9.87		73.8	20-150			

Batch B342720 - Draft Method 1633
Blank (B342720-BLK1)

Prepared: 06/14/23 Analyzed: 06/16/23

Perfluorobutanoic acid (PFBA)	ND	4.0	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	0.99	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	0.99	ng/L							
Perfluorooctanoic acid (PFOA)	ND	0.99	ng/L							
Perfluorononanoic acid (PFNA)	ND	0.99	ng/L							
Perfluorodecanoic acid (PFDA)	ND	0.99	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	0.99	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	0.99	ng/L							
Perfluorotridecanoic acid (PFTTrDA)	ND	0.99	ng/L							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.99	ng/L							

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342720 - Draft Method 1633
Blank (B342720-BLK1)

Prepared: 06/14/23 Analyzed: 06/16/23

Perfluorobutanesulfonic acid (PFBS)	ND	0.99	ng/L
Perfluoropentanesulfonic acid (PFPeS)	ND	0.99	ng/L
Perfluorohexanesulfonic acid (PFHxS)	ND	0.99	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.99	ng/L
Perfluorooctanesulfonic acid (PFOS)	ND	0.99	ng/L
Perfluorononanesulfonic acid (PFNS)	ND	0.99	ng/L
Perfluorodecanesulfonic acid (PFDS)	ND	0.99	ng/L
Perfluorododecanesulfonic acid (PFDoS)	ND	0.99	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	4.0	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	4.0	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	4.0	ng/L
Perfluorooctanesulfonamide (PFOSA)	ND	0.99	ng/L
N-methyl perfluorooctanesulfonamide (NMeFOSA)	ND	0.99	ng/L
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.99	ng/L
N-MeFOSAA (NMeFOSAA)	ND	0.99	ng/L
N-EtFOSAA (NEtFOSAA)	ND	0.99	ng/L
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	ND	9.9	ng/L
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	9.9	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	4.0	ng/L
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND	4.0	ng/L
9Cl-PF3ONS (F53B Minor)	ND	4.0	ng/L
11Cl-PF3OUdS (F53B Major)	ND	4.0	ng/L
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	9.9	ng/L
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	50	ng/L
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	50	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	2.0	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	2.0	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	2.0	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0	ng/L

Surrogate: 13C4-PFBA	84.3		ng/L	99.1		85.1	20-150
Surrogate: 13C5-PFPeA	43.2		ng/L	49.5		87.2	20-150
Surrogate: 13C5-PFHxA	21.1		ng/L	24.8		85.0	20-150
Surrogate: 13C4-PFHpA	21.6		ng/L	24.8		87.1	20-150
Surrogate: 13C8-PFOA	20.6		ng/L	24.8		83.0	20-150
Surrogate: 13C9-PFNA	10.8		ng/L	12.4		87.3	20-150
Surrogate: 13C6-PFDA	10.3		ng/L	12.4		82.8	20-150
Surrogate: 13C7-PFUnA	9.98		ng/L	12.4		80.6	20-150
Surrogate: 13C2-PFDoA	9.42		ng/L	12.4		76.0	20-150
Surrogate: 13C2-PFTeDA	9.54		ng/L	12.4		77.0	20-150
Surrogate: 13C3-PFBS	21.0		ng/L	24.8		84.8	20-150
Surrogate: 13C3-PFHxS	20.6		ng/L	24.8		83.1	20-150

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342720 - Draft Method 1633
Blank (B342720-BLK1)

Prepared: 06/14/23 Analyzed: 06/16/23

Surrogate: 13C8-PFOS	19.5		ng/L	24.8		78.6	20-150			
Surrogate: 13C2-4:2FTS	39.4		ng/L	49.5		79.6	20-150			
Surrogate: 13C2-6:2FTS	43.9		ng/L	49.5		88.7	20-150			
Surrogate: 13C2-8:2FTS	47.4		ng/L	49.5		95.7	20-150			
Surrogate: 13C8-PFOSA	18.2		ng/L	24.8		73.4	20-150			
Surrogate: D3-NMeFOSA	15.0		ng/L	24.8		60.5	20-150			
Surrogate: D5-NEtFOSA	15.4		ng/L	24.8		62.4	20-150			
Surrogate: D3-NMeFOSAA	36.7		ng/L	49.5		74.1	20-150			
Surrogate: D5-NEtFOSAA	37.1		ng/L	49.5		75.0	20-150			
Surrogate: D7-NMeFOSE	182		ng/L	248		73.5	20-150			
Surrogate: D9-NEtFOSE	172		ng/L	248		69.6	20-150			
Surrogate: 13C3-HFPO-DA	85.9		ng/L	99.1		86.7	20-150			

LCS (B342720-BS1)

Prepared: 06/14/23 Analyzed: 06/16/23

Perfluorobutanoic acid (PFBA)	104	3.9	ng/L	93.8		111	40-150			
Perfluoropentanoic acid (PFPeA)	51.2	2.0	ng/L	46.9		109	40-150			
Perfluorohexanoic acid (PFHxA)	25.5	0.98	ng/L	23.4		109	40-150			
Perfluoroheptanoic acid (PFHpA)	25.4	0.98	ng/L	23.4		108	40-150			
Perfluorooctanoic acid (PFOA)	25.6	0.98	ng/L	23.4		109	40-150			
Perfluorononanoic acid (PFNA)	24.8	0.98	ng/L	23.4		106	40-150			
Perfluorodecanoic acid (PFDA)	24.8	0.98	ng/L	23.4		106	40-150			
Perfluoroundecanoic acid (PFUnA)	25.8	0.98	ng/L	23.4		110	40-150			
Perfluorododecanoic acid (PFDoA)	25.1	0.98	ng/L	23.4		107	40-150			
Perfluorotridecanoic acid (PFTTrDA)	24.9	0.98	ng/L	23.4		106	40-150			
Perfluorotetradecanoic acid (PFTeDA)	25.7	0.98	ng/L	23.4		110	40-150			
Perfluorobutanesulfonic acid (PFBS)	22.2	0.98	ng/L	20.8		106	40-150			
Perfluoropentanesulfonic acid (PFPeS)	22.9	0.98	ng/L	22.0		104	40-150			
Perfluorohexanesulfonic acid (PFHxS)	22.6	0.98	ng/L	21.5		105	40-150			
Perfluoroheptanesulfonic acid (PFHpS)	25.1	0.98	ng/L	22.3		113	40-150			
Perfluorooctanesulfonic acid (PFOS)	23.3	0.98	ng/L	21.7		107	40-150			
Perfluorononanesulfonic acid (PFNS)	23.5	0.98	ng/L	22.6		104	40-150			
Perfluorodecanesulfonic acid (PFDS)	22.7	0.98	ng/L	22.6		101	40-150			
Perfluorododecanesulfonic acid (PFDoS)	23.0	0.98	ng/L	22.7		101	40-150			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	100	3.9	ng/L	87.9		114	40-150			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	100	3.9	ng/L	89.1		113	40-150			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	104	3.9	ng/L	90.3		116	40-150			
Perfluorooctanesulfonamide (PFOSA)	25.4	0.98	ng/L	23.4		108	40-150			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	24.9	0.98	ng/L	23.4		106	40-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	25.0	0.98	ng/L	23.4		107	40-150			
N-MeFOSAA (NMeFOSAA)	25.5	0.98	ng/L	23.4		109	40-150			
N-EtFOSAA (NEtFOSAA)	26.0	0.98	ng/L	23.4		111	40-150			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	263	9.8	ng/L	234		112	40-150			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	264	9.8	ng/L	234		113	40-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	99.6	3.9	ng/L	93.8		106	40-150			
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	90.4	3.9	ng/L	88.5		102	40-150			
9Cl-PF3ONS (F53B Minor)	95.1	3.9	ng/L	87.9		108	40-150			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342720 - Draft Method 1633
LCS (B342720-BS1)

Prepared: 06/14/23 Analyzed: 06/16/23

11CI-PF3OUdS (F53B Major)	93.1	3.9	ng/L	88.5		105	40-150			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	222	9.8	ng/L	234		94.7	40-150			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1160	49	ng/L	1170		99.1	40-150			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1110	49	ng/L	1170		94.5	40-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	43.5	2.0	ng/L	41.7		104	40-150			
Perfluoro-3-methoxypropanoic acid (PFMPA)	47.4	2.0	ng/L	46.9		101	40-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	48.4	2.0	ng/L	46.9		103	40-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	51.5	2.0	ng/L	46.9		110	40-150			
Surrogate: 13C4-PFBA	83.6		ng/L	97.7		85.6	10-130			
Surrogate: 13C5-PFPeA	41.1		ng/L	48.8		84.2	35-150			
Surrogate: 13C5-PFHxA	20.4		ng/L	24.4		83.5	55-150			
Surrogate: 13C4-PFHpA	20.4		ng/L	24.4		83.4	55-150			
Surrogate: 13C8-PFOA	19.9		ng/L	24.4		81.4	60-140			
Surrogate: 13C9-PFNA	10.5		ng/L	12.2		86.0	55-140			
Surrogate: 13C6-PFDA	10.2		ng/L	12.2		83.4	50-140			
Surrogate: 13C7-PFUnA	9.80		ng/L	12.2		80.3	30-140			
Surrogate: 13C2-PFDoA	9.88		ng/L	12.2		80.9	10-150			
Surrogate: 13C2-PFTeDA	10.2		ng/L	12.2		83.3	10-130			
Surrogate: 13C3-PFBS	20.9		ng/L	24.4		85.4	55-150			
Surrogate: 13C3-PFHxS	20.4		ng/L	24.4		83.5	55-150			
Surrogate: 13C8-PFOS	19.8		ng/L	24.4		81.0	45-140			
Surrogate: 13C2-4:2FTS	40.5		ng/L	48.8		82.8	60-200			
Surrogate: 13C2-6:2FTS	47.9		ng/L	48.8		98.1	60-200			
Surrogate: 13C2-8:2FTS	49.6		ng/L	48.8		102	50-200			
Surrogate: 13C8-PFOSA	18.1		ng/L	24.4		74.1	30-130			
Surrogate: D3-NMeFOSA	14.4		ng/L	24.4		59.0	15-130			
Surrogate: D5-NEtFOSA	15.0		ng/L	24.4		61.5	10-130			
Surrogate: D3-NMeFOSAA	37.1		ng/L	48.8		76.1	45-200			
Surrogate: D5-NEtFOSAA	37.4		ng/L	48.8		76.7	10-200			
Surrogate: D7-NMeFOSE	161		ng/L	244		65.9	10-150			
Surrogate: D9-NEtFOSE	155		ng/L	244		63.4	10-150			
Surrogate: 13C3-HFPO-DA	82.3		ng/L	97.7		84.2	25-160			

MRL Check (B342720-MRL1)

Prepared: 06/14/23 Analyzed: 06/16/23

Perfluorobutanoic acid (PFBA)	8.35	3.9	ng/L	7.80		107	0-200			
Perfluoropentanoic acid (PFPeA)	3.77	1.9	ng/L	3.90		96.7	0-200			
Perfluorohexanoic acid (PFHxA)	1.87	0.97	ng/L	1.95		96.0	0-200			
Perfluoroheptanoic acid (PFHpA)	1.88	0.97	ng/L	1.95		96.5	0-200			
Perfluorooctanoic acid (PFOA)	1.87	0.97	ng/L	1.95		95.9	0-200			
Perfluorononanoic acid (PFNA)	1.85	0.97	ng/L	1.95		95.1	0-200			
Perfluorodecanoic acid (PFDA)	1.82	0.97	ng/L	1.95		93.2	0-200			
Perfluoroundecanoic acid (PFUnA)	1.87	0.97	ng/L	1.95		95.8	0-200			
Perfluorododecanoic acid (PFDoA)	1.80	0.97	ng/L	1.95		92.6	0-200			
Perfluorotridecanoic acid (PFTTrDA)	1.67	0.97	ng/L	1.95		85.7	0-200			
Perfluorotetradecanoic acid (PFTeDA)	1.87	0.97	ng/L	1.95		96.2	0-200			
Perfluorobutanesulfonic acid (PFBS)	1.60	0.97	ng/L	1.73		92.6	0-200			
Perfluoropentanesulfonic acid (PFPeS)	1.53	0.97	ng/L	1.83		83.4	0-200			
Perfluorohexanesulfonic acid (PFHxS)	1.86	0.97	ng/L	1.78		104	0-200			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342720 - Draft Method 1633
MRL Check (B342720-MRL1)

Prepared: 06/14/23 Analyzed: 06/16/23

Perfluoroheptanesulfonic acid (PFHpS)	1.78	0.97	ng/L	1.86		96.1	0-200			
Perfluorooctanesulfonic acid (PFOS)	1.91	0.97	ng/L	1.81		105	0-200			
Perfluorononanesulfonic acid (PFNS)	1.65	0.97	ng/L	1.88		88.2	0-200			
Perfluorodecanesulfonic acid (PFDS)	1.73	0.97	ng/L	1.88		91.9	0-200			
Perfluorododecanesulfonic acid (PFDoS)	1.83	0.97	ng/L	1.89		96.8	0-200			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	6.92	3.9	ng/L	7.31		94.6	0-200			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	6.79	3.9	ng/L	7.41		91.7	0-200			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	7.12	3.9	ng/L	7.50		94.8	0-200			
Perfluorooctanesulfonamide (PFOSA)	1.82	0.97	ng/L	1.95		93.5	0-200			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	1.90	0.97	ng/L	1.95		97.5	0-200			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	1.91	0.97	ng/L	1.95		97.8	0-200			
N-MeFOSAA (NMeFOSAA)	1.73	0.97	ng/L	1.95		88.6	0-200			
N-EtFOSAA (NEtFOSAA)	1.86	0.97	ng/L	1.95		95.6	0-200			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	18.5	9.7	ng/L	19.5		95.1	0-200			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	18.9	9.7	ng/L	19.5		97.0	0-200			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.27	3.9	ng/L	7.80		93.3	0-200			
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	6.68	3.9	ng/L	7.36		90.8	0-200			
9Cl-PF3ONS (F53B Minor)	6.97	3.9	ng/L	7.31		95.4	0-200			
11Cl-PF3OUdS (F53B Major)	6.66	3.9	ng/L	7.36		90.5	0-200			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	18.0	9.7	ng/L	19.5		92.3	0-200			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	96.1	49	ng/L	97.4		98.6	0-200			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	93.8	49	ng/L	97.4		96.3	0-200			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	3.42	1.9	ng/L	3.47		98.7	0-200			
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.63	1.9	ng/L	3.90		93.2	0-200			
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.70	1.9	ng/L	3.90		94.8	0-200			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.94	1.9	ng/L	3.90		101	0-200			
Surrogate: 13C4-PFBA	86.5		ng/L	97.4		88.8	10-130			
Surrogate: 13C5-PFPeA	44.8		ng/L	48.7		91.9	35-150			
Surrogate: 13C5-PFHxA	21.7		ng/L	24.4		88.9	55-150			
Surrogate: 13C4-PFHpA	22.2		ng/L	24.4		91.0	55-150			
Surrogate: 13C8-PFOA	20.0		ng/L	24.4		82.2	60-140			
Surrogate: 13C9-PFNA	10.3		ng/L	12.2		84.7	55-140			
Surrogate: 13C6-PFDA	10.9		ng/L	12.2		89.2	50-140			
Surrogate: 13C7-PFUnA	10.2		ng/L	12.2		83.9	30-140			
Surrogate: 13C2-PFDoA	10.4		ng/L	12.2		85.0	10-150			
Surrogate: 13C2-PFTeDA	10.6		ng/L	12.2		87.2	10-130			
Surrogate: 13C3-PFBS	22.0		ng/L	24.4		90.2	55-150			
Surrogate: 13C3-PFHxS	21.5		ng/L	24.4		88.3	55-150			
Surrogate: 13C8-PFOS	20.5		ng/L	24.4		84.0	45-140			
Surrogate: 13C2-4:2FTS	42.0		ng/L	48.7		86.1	60-200			
Surrogate: 13C2-6:2FTS	46.5		ng/L	48.7		95.4	60-200			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342720 - Draft Method 1633
MRL Check (B342720-MRL1)

Prepared: 06/14/23 Analyzed: 06/16/23

Surrogate: 13C2-8:2FTS	49.3		ng/L	48.7		101	50-200			
Surrogate: 13C8-PFOSA	19.3		ng/L	24.4		79.3	30-130			
Surrogate: D3-NMeFOSA	15.2		ng/L	24.4		62.5	15-130			
Surrogate: D5-NEtFOSA	15.5		ng/L	24.4		63.6	10-130			
Surrogate: D3-NMeFOSAA	38.5		ng/L	48.7		79.0	45-200			
Surrogate: D5-NEtFOSAA	39.2		ng/L	48.7		80.5	10-200			
Surrogate: D7-NMeFOSE	174		ng/L	244		71.6	10-150			
Surrogate: D9-NEtFOSE	167		ng/L	244		68.6	10-150			
Surrogate: 13C3-HFPO-DA	87.7		ng/L	97.4		90.0	25-160			

Matrix Spike (B342720-MS1)
Source: 23E3549-05RE1

Prepared: 06/14/23 Analyzed: 06/16/23

Perfluorobutanoic acid (PFBA)	105	3.9	ng/L	94.4	1.60	110	40-150			
Perfluoropentanoic acid (PFPeA)	52.0	2.0	ng/L	47.2	0.579	109	40-150			
Perfluorohexanoic acid (PFHxA)	26.3	0.98	ng/L	23.6	0.387	110	40-150			
Perfluoroheptanoic acid (PFHpA)	25.7	0.98	ng/L	23.6	ND	109	40-150			
Perfluorooctanoic acid (PFOA)	25.8	0.98	ng/L	23.6	0.647	107	40-150			
Perfluorononanoic acid (PFNA)	25.8	0.98	ng/L	23.6	ND	109	40-150			
Perfluorodecanoic acid (PFDA)	25.7	0.98	ng/L	23.6	ND	109	40-150			
Perfluoroundecanoic acid (PFUnA)	26.0	0.98	ng/L	23.6	ND	110	40-150			
Perfluorododecanoic acid (PFDoA)	26.0	0.98	ng/L	23.6	ND	110	40-150			
Perfluorotridecanoic acid (PFTrDA)	23.0	0.98	ng/L	23.6	ND	97.6	40-150			
Perfluorotetradecanoic acid (PFTeDA)	25.8	0.98	ng/L	23.6	ND	109	40-150			
Perfluorobutanesulfonic acid (PFBS)	23.2	0.98	ng/L	21.0	0.334	109	40-150			
Perfluoropentanesulfonic acid (PFPeS)	24.0	0.98	ng/L	22.2	ND	108	40-150			
Perfluorohexanesulfonic acid (PFHxS)	22.9	0.98	ng/L	21.6	0.385	104	40-150			
Perfluoroheptanesulfonic acid (PFHpS)	25.7	0.98	ng/L	22.5	ND	114	40-150			
Perfluorooctanesulfonic acid (PFOS)	24.4	0.98	ng/L	21.9	0.602	109	40-150			
Perfluorononanesulfonic acid (PFNS)	25.2	0.98	ng/L	22.7	ND	111	40-150			
Perfluorodecanesulfonic acid (PFDS)	22.9	0.98	ng/L	22.8	ND	101	40-150			
Perfluorododecanesulfonic acid (PFDoS)	20.9	0.98	ng/L	22.9	ND	91.3	40-150			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	99.5	3.9	ng/L	88.5	ND	112	40-150			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	99.4	3.9	ng/L	89.7	ND	111	40-150			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	106	3.9	ng/L	90.9	ND	116	40-150			
Perfluorooctanesulfonamide (PFOSA)	25.7	0.98	ng/L	23.6	ND	109	40-150			
N-methyl perfluorooctanesulfonamide (NMeFOSA)	24.9	0.98	ng/L	23.6	ND	105	40-150			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	25.3	0.98	ng/L	23.6	ND	107	40-150			
N-MeFOSAA (NMeFOSAA)	27.8	0.98	ng/L	23.6	ND	118	40-150			
N-EtFOSAA (NEtFOSAA)	26.3	0.98	ng/L	23.6	ND	112	40-150			
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	258	9.8	ng/L	236	ND	109	40-150			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	256	9.8	ng/L	236	ND	109	40-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	103	3.9	ng/L	94.4	ND	109	40-150			
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	92.8	3.9	ng/L	89.1	ND	104	40-150			
9Cl-PF3ONS (F53B Minor)	96.4	3.9	ng/L	88.5	ND	109	40-150			
11Cl-PF3OUdS (F53B Major)	87.9	3.9	ng/L	89.1	ND	98.7	40-150			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	223	9.8	ng/L	236	ND	94.3	40-150			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342720 - Draft Method 1633

Matrix Spike (B342720-MS1)		Source: 23E3549-05RE1		Prepared: 06/14/23		Analyzed: 06/16/23				
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	1190	49	ng/L	1180	ND	101	40-150			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1130	49	ng/L	1180	ND	95.8	40-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	44.5	2.0	ng/L	42.0	ND	106	40-150			
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.3	2.0	ng/L	47.2	ND	85.3	40-150			
Perfluoro-4-methoxybutanoic acid (PFMBA)	47.2	2.0	ng/L	47.2	ND	100	40-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	49.9	2.0	ng/L	47.2	ND	106	40-150			
Surrogate: 13C4-PFBA	27.4		ng/L	98.4		27.8	20-150			
Surrogate: 13C5-PFPeA	43.5		ng/L	49.2		88.4	20-150			
Surrogate: 13C5-PFHxA	21.2		ng/L	24.6		86.1	20-150			
Surrogate: 13C4-PFHpA	21.4		ng/L	24.6		86.9	20-150			
Surrogate: 13C8-PFOA	20.6		ng/L	24.6		83.7	20-150			
Surrogate: 13C9-PFNA	10.5		ng/L	12.3		85.7	20-150			
Surrogate: 13C6-PFDA	11.0		ng/L	12.3		89.4	20-150			
Surrogate: 13C7-PFUnA	10.6		ng/L	12.3		85.9	20-150			
Surrogate: 13C2-PFDoA	10.2		ng/L	12.3		82.8	20-150			
Surrogate: 13C2-PFTeDA	8.89		ng/L	12.3		72.3	20-150			
Surrogate: 13C3-PFBS	21.4		ng/L	24.6		87.1	20-150			
Surrogate: 13C3-PFHxS	21.4		ng/L	24.6		87.0	20-150			
Surrogate: 13C8-PFOS	20.7		ng/L	24.6		84.0	20-150			
Surrogate: 13C2-4:2FTS	48.3		ng/L	49.2		98.3	20-150			
Surrogate: 13C2-6:2FTS	51.3		ng/L	49.2		104	20-150			
Surrogate: 13C2-8:2FTS	52.9		ng/L	49.2		108	20-150			
Surrogate: 13C8-PFOSA	19.9		ng/L	24.6		81.0	20-150			
Surrogate: D3-NMeFOSA	15.7		ng/L	24.6		64.0	20-150			
Surrogate: D5-NEtFOSA	15.0		ng/L	24.6		61.0	20-150			
Surrogate: D3-NMeFOSAA	40.3		ng/L	49.2		82.0	20-150			
Surrogate: D5-NEtFOSAA	40.4		ng/L	49.2		82.1	20-150			
Surrogate: D7-NMeFOSE	158		ng/L	246		64.3	20-150			
Surrogate: D9-NEtFOSE	150		ng/L	246		61.1	20-150			
Surrogate: 13C3-HFPO-DA	86.8		ng/L	98.4		88.3	20-150			

Matrix Spike Dup (B342720-MSD1)		Source: 23E3549-05RE1		Prepared: 06/14/23		Analyzed: 06/16/23				
Perfluorobutanoic acid (PFBA)	104	4.0	ng/L	95.2	1.60	107	40-150	1.48	30	
Perfluoropentanoic acid (PFPeA)	51.9	2.0	ng/L	47.6	0.579	108	40-150	0.0622	30	
Perfluorohexanoic acid (PFHxA)	25.3	0.99	ng/L	23.8	0.387	105	40-150	3.87	30	
Perfluoroheptanoic acid (PFHpA)	25.2	0.99	ng/L	23.8	ND	106	40-150	1.81	30	
Perfluorooctanoic acid (PFOA)	25.9	0.99	ng/L	23.8	0.647	106	40-150	0.365	30	
Perfluorononanoic acid (PFNA)	25.2	0.99	ng/L	23.8	ND	106	40-150	2.36	30	
Perfluorodecanoic acid (PFDA)	24.3	0.99	ng/L	23.8	ND	102	40-150	5.49	30	
Perfluoroundecanoic acid (PFUnA)	25.0	0.99	ng/L	23.8	ND	105	40-150	3.63	30	
Perfluorododecanoic acid (PFDoA)	25.3	0.99	ng/L	23.8	ND	106	40-150	2.73	30	
Perfluorotridecanoic acid (PFTTrDA)	24.1	0.99	ng/L	23.8	ND	101	40-150	4.68	30	
Perfluorotetradecanoic acid (PFTeDA)	25.3	0.99	ng/L	23.8	ND	106	40-150	1.69	30	
Perfluorobutanesulfonic acid (PFBS)	22.6	0.99	ng/L	21.1	0.334	105	40-150	2.63	30	
Perfluoropentanesulfonic acid (PFPeS)	24.6	0.99	ng/L	22.4	ND	110	40-150	2.14	30	
Perfluorohexanesulfonic acid (PFHxS)	23.4	0.99	ng/L	21.8	0.385	106	40-150	2.10	30	
Perfluoroheptanesulfonic acid (PFHpS)	25.0	0.99	ng/L	22.7	ND	110	40-150	2.82	30	
Perfluorooctanesulfonic acid (PFOS)	24.0	0.99	ng/L	22.1	0.602	106	40-150	1.58	30	
Perfluorononanesulfonic acid (PFNS)	25.1	0.99	ng/L	22.9	ND	110	40-150	0.423	30	

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342720 - Draft Method 1633

Matrix Spike Dup (B342720-MSD1)		Source: 23E3549-05RE1			Prepared: 06/14/23 Analyzed: 06/16/23					
Perfluorodecanesulfonic acid (PFDS)	23.9	0.99	ng/L	23.0	ND	104	40-150	3.92	30	
Perfluorododecanesulfonic acid (PFDoS)	22.6	0.99	ng/L	23.1	ND	97.9	40-150	7.74	30	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	102	4.0	ng/L	89.2	ND	115	40-150	2.63	30	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	99.3	4.0	ng/L	90.4	ND	110	40-150	0.0547	30	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	105	4.0	ng/L	91.6	ND	115	40-150	0.603	30	
Perfluorooctanesulfonamide (PFOSA)	25.8	0.99	ng/L	23.8	ND	109	40-150	0.417	30	
N-methyl perfluorooctanesulfonamide (NMeFOSA)	24.3	0.99	ng/L	23.8	ND	102	40-150	2.34	30	
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	25.5	0.99	ng/L	23.8	ND	107	40-150	0.939	30	
N-MeFOSAA (NMeFOSAA)	30.3	0.99	ng/L	23.8	ND	127	40-150	8.56	30	
N-EtFOSAA (NEtFOSAA)	26.0	0.99	ng/L	23.8	ND	109	40-150	1.23	30	
N-methylperfluorooctanesulfonamidoethanol (NMeFOSE)	255	9.9	ng/L	238	ND	107	40-150	1.10	30	
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	252	9.9	ng/L	238	ND	106	40-150	1.58	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	104	4.0	ng/L	95.2	ND	109	40-150	0.718	30	
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	93.8	4.0	ng/L	89.8	ND	104	40-150	1.17	30	
9Cl-PF3ONS (F53B Minor)	96.8	4.0	ng/L	89.2	ND	108	40-150	0.413	30	
11Cl-PF3OUdS (F53B Major)	94.5	4.0	ng/L	89.8	ND	105	40-150	7.15	30	
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	235	9.9	ng/L	238	ND	98.7	40-150	5.31	30	
2H,2H,3H,3H-Perfluorooctanoic acid (FPePA)(5:3FTCA)	1190	50	ng/L	1190	ND	100	40-150	0.103	30	
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	1100	50	ng/L	1190	ND	92.1	40-150	3.23	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	44.8	2.0	ng/L	42.4	ND	106	40-150	0.669	30	
Perfluoro-3-methoxypropanoic acid (PFMPA)	44.0	2.0	ng/L	47.6	ND	92.4	40-150	8.79	30	
Perfluoro-4-methoxybutanoic acid (PFMBA)	49.3	2.0	ng/L	47.6	ND	104	40-150	4.29	30	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	51.5	2.0	ng/L	47.6	ND	108	40-150	3.16	30	
Surrogate: 13C4-PFBA	33.1		ng/L	99.1		33.3	20-150			
Surrogate: 13C5-PFPeA	40.9		ng/L	49.6		82.6	20-150			
Surrogate: 13C5-PFHxA	20.5		ng/L	24.8		82.6	20-150			
Surrogate: 13C4-PFHpA	20.0		ng/L	24.8		80.7	20-150			
Surrogate: 13C8-PFOA	19.5		ng/L	24.8		78.6	20-150			
Surrogate: 13C9-PFNA	10.0		ng/L	12.4		80.9	20-150			
Surrogate: 13C6-PFDA	10.4		ng/L	12.4		84.0	20-150			
Surrogate: 13C7-PFUnA	10.1		ng/L	12.4		81.5	20-150			
Surrogate: 13C2-PFDoA	9.72		ng/L	12.4		78.4	20-150			
Surrogate: 13C2-PFTeDA	9.01		ng/L	12.4		72.7	20-150			
Surrogate: 13C3-PFBS	19.6		ng/L	24.8		78.9	20-150			
Surrogate: 13C3-PFHxS	19.1		ng/L	24.8		76.9	20-150			
Surrogate: 13C8-PFOS	19.0		ng/L	24.8		76.8	20-150			
Surrogate: 13C2-4:2FTS	43.5		ng/L	49.6		87.7	20-150			
Surrogate: 13C2-6:2FTS	45.6		ng/L	49.6		92.0	20-150			
Surrogate: 13C2-8:2FTS	45.4		ng/L	49.6		91.6	20-150			
Surrogate: 13C8-PFOSA	18.6		ng/L	24.8		75.0	20-150			
Surrogate: D3-NMeFOSA	14.8		ng/L	24.8		59.5	20-150			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B342720 - Draft Method 1633
Matrix Spike Dup (B342720-MSD1)
Source: 23E3549-05RE1

Prepared: 06/14/23 Analyzed: 06/16/23

Surrogate: D5-NEtFOSA	14.2		ng/L	24.8		57.4	20-150			
Surrogate: D3-NMeFOSAA	36.9		ng/L	49.6		74.5	20-150			
Surrogate: D5-NEtFOSAA	38.4		ng/L	49.6		77.5	20-150			
Surrogate: D7-NMeFOSE	153		ng/L	248		61.9	20-150			
Surrogate: D9-NEtFOSE	149		ng/L	248		60.1	20-150			
Surrogate: 13C3-HFPO-DA	80.8		ng/L	99.1		81.5	20-150			

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QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes

Batch B341784 - Draft Method 1633
Blank (B341784-BLK1)

Prepared & Analyzed: 05/31/23

Total Suspended Solids	ND	5.0	mg/L

LCS (B341784-BS1)

Prepared & Analyzed: 05/31/23

Total Suspended Solids	214	5.0	mg/L	200	107	64.1-125

Batch B342456 - % Solids
Duplicate (B342456-DUP1)
Source: 23E3549-06

Prepared & Analyzed: 06/06/23

% Solids	82.1	% Wt	82.4	0.302	10

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated laboratory blank as well as in the sample.
H-01	Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.
H-06	Sample was extracted past the recommended holding time.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
PF-17B	Extracted internal standard is outside of control limits. Insufficient sample volume for re-extraction.
PF-18	Duplicate analysis confirmed Extracted Internal Standard failure due to matrix effects.
S-29	Extracted Internal Standard is outside of control limits.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>Draft Method 1633 in Soil</i>	
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV
Perfluorotetradecanoic acid (PFTeDA)	NH-P,PA,WV
Perfluorobutanesulfonic acid (PFBS)	NH-P,PA,WV
Perfluoropentanesulfonic acid (PFPeS)	NH-P,PA,WV
Perfluorohexanesulfonic acid (PFHxS)	NH-P,PA,WV
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,PA,WV
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NH-P,PA,WV
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV
N-EtFOSAA (NEtFOSAA)	NH-P,PA,WV
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,PA,WV
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,PA,WV
9Cl-PF3ONS (F53B Minor)	NH-P,PA,WV
11Cl-PF3OUdS (F53B Major)	NH-P,PA,WV
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,PA,WV
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,PA,WV
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV
<i>Draft Method 1633 in Water</i>	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>Draft Method 1633 in Water</i>	
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV
Perfluorotetradecanoic acid (PFTeDA)	NH-P,NY,PA,WV
Perfluorobutanesulfonic acid (PFBS)	NH-P,NY,PA,WV
Perfluoropentanesulfonic acid (PFPeS)	NH-P,NY,PA,WV
Perfluorohexanesulfonic acid (PFHxS)	NH-P,NY,PA,WV
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,NY,PA,WV
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,NY,PA,WV
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV
N-methyl perfluorooctanesulfonamide (NMeFOSA)	NH-P,PA,WV
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV
N-EtFOSAA (NEtFOSAA)	NH-P,NY,PA,WV
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,NY,PA,WV
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,NY,PA,WV
9Cl-PF3ONS (F53B Minor)	NH-P,NY,PA,WV
11Cl-PF3OUdS (F53B Major)	NH-P,NY,PA,WV
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	NH-P,NY,PA,WV
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,NY,PA,WV
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
MA	Massachusetts DEP	M-MA100	06/30/2024
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
RI	Rhode Island Department of Health	LAO00373	12/30/2023
NC	North Carolina Div. of Water Quality	652	12/31/2023
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2023
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2023
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2024
WV	West Virginia DEP Division of Water and Waste Management	419	08/31/2024

Contact: <https://www.pacelabs.com/contact-us/contact-environmental-sciences/>

Company Name: _____
Address: _____
Phone: _____
Project Name: Groundwater
Project Location: _____
Project Number: _____
Project Manager: _____
Pace Analytical Quote Name/Number _____
Invoice Recipient: _____
Sampled By: _____

Requested Turnaround Time
☐ 7-Day ☐ 10-Day ☐

Due Date: _____

Rush-Approval Required
☐ 1-Day ☐ 3-Day ☐ 4-Day

Data Delivery
Format: ☐ PDF ☐ EXCEL ☐

Other: _____

CLP Like Data Pkg Required: ☐

Email To: _____

Fax To #: _____

Pace Analytical Work Order #	Client Sample ID/Description	Receiving Date/Time	Ending Date/Time	Composure	State	Water Code	Goal Code
7	518014-SW-01	5/24/23	1225		V	SW	V
8	518014-SD-01	5/24/23	1235		V	S	V
9	518014-FB-052423	5/24/23	1250		V	W	W
10	518014-FB-052423	5/24/23	1255		V	W	W
11	518014-FD-01-SW	5/24/23	—		V	SW	V
12	518014-FD-01-SD	5/24/23	—		V	S	V
13	518014-SW-03	5/24/23	1345		V	SW	V
14	518014-SD-03	5/24/23	1355		V	S	V

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) [Signature] **Date/Time:** 5/24/23 1550

Received by: (signature) [Signature] **Date/Time:** 5-24-23 1530

Relinquished by: (signature) [Signature] **Date/Time:** 5-25-23 1115

Received by: (signature) [Signature] **Date/Time:** 5-25-23 1440

Relinquished by: (signature) [Signature] **Date/Time:** 5-25-23 1700

Received by: (signature) [Signature] **Date/Time:** 5/25/23 1700

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Program B: Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQUIS EDD
☐ EQUIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD

Other: _____

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School ☐ MBTA
☐ City ☐ Brownfield

PCB ONLY
☐ Soxhlet ☐ Non Soxhlet



39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.pacelabs.com

ENV-FRM-ELON-0001 V05__ Sample Receiving Checklist

Log In Back-Sheet

Login Sample Receipt Checklist - (Rejection Criteria Listing
- Using Acceptance Policy) Any False statement will be
brought to the attention of the Client - True or False



Client EA Engineering
Project Kurkey MA CA
MCP/RCP Required MA
Deliverable Package Requirement N/A
Location Brodubbin, MA
PWSID# (When Applicable) MA
Arrival Method:
Courier ☒ Fed Ex ☐ Walk In ☐ Other ☐
Received By / Date / Time ED 5/25/23 1700
~~Back Sheet By / Date / Time~~ LA 5/26/23 937
Temperature Method gun #5
Temp ☒ < 6° C Actual Temperature 5-8/4-6/2.4/3.7
Rush Samples: Yes ☒ No ☐ Notify 4-28-113-0/4-43.1
Short Hold: Yes ☒ No ☐ Notify 2-115-513.8

Notes regarding Samples/COC outside of SOP:

	True	False
Received on Ice	☒	☐
Received in Cooler	☒	☐
Custody Seal: DATE TIME	☐	☒
COC Relinquished	☒	☐
COC/Samples Labels Agree	☒	☐
All Samples in Good Condition	☒	☐
Samples Received within Holding Time	☒	☐
Is there enough Volume	☒	☐
Proper Media/Container Used	☒	☐
Splitting Samples Required	☐	☒
MS/MSD	☐	☒
Trip Blanks	☐	☒
Lab to Filters	☐	☒
COC Legible	☒	☐
COC Included: (Check all included)		
Client ☒	Analysis ☒	Sampler Name ☒
Project ☒	IDs ☒	Collection Date/Time ☒
All Samples Proper pH: <u>N/A</u> ☐ ☐		

Additional Container Notes

Sample	Soils Jars				Ambers						Plastics						VOA Vials					Other / Fill in							
	(Circle Amb/Clear)				1 Liter			250ml	100mL	1 Liter		500ml	250ml																
1	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Unpreserved	Sulfuric	Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric	Nitric	NaOH	NaOH/Zinc	Unpreserved	HCl	MeOH	D.I. Water	BiSulfate	Col/Bact	Other	125ML pump
2																													
3																													
4																													
5																													
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Appendix D

Data Validation Report

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DATA VALIDATION REPORT

NYSDEC Korkay, Incorporated

SDGs: 23E3537, 23E3538, 23E3540, and 23E3549

Chemical Analyses Performed by:

**Con-Test
Pace Analytical Laboratory**

Prepared by

ENVIRONMENTAL DATA SERVICES, LTD.

Prepared for

EA Engineering, Science and Technology, Inc.

November 16, 2023

DATA USABILITY SUMMARY REPORT FOR PESTICIDES

PROJECT: NYSDEC Korkay, Incorporated

CLIENT: EA Engineering, Science, and Technology, Inc.

LABORATORY: Con-Test, A Pace Analytical Laboratory

SAMPLE DELIVERY GROUPS: 23E3537

SAMPLE DATES: 05/23/2023

The above sample delivery group (SDG) consist of the following samples:

Client Sample ID	Laboratory Sample ID
518014-MW-23	23E3537-01
518014-ASW	23E3537-02
518014-VEW-2	23E3537-03
518014-VEW-3	23E3537-04
518014-VEW-4	23E3537-05
518014-VEW-1	23E3537-06
518014-K-2	23E3537-07
518014-MW-18	23E3537-08
518014-MW-22	23E3537-09
518014-MW-17	23E3537-10
518014-K-3	23E3537-11
518014-MW-15S	23E3537-12
518014-MW-21	23E3537-13
518014-MW-24	23E3537-14
518014-MW-8S	23E3537-15
518014-DUP-1-GW	23E3537-16
518014-MW-20	23E3537-17

The samples described above were analyzed via United States Environmental Protection Agency (USEPA) SW846 Method 8082A to determine the concentrations of Aroclor polychlorinated biphenyls (PCBs) and Method 8081B to determine the concentrations of organochlorine pesticides.

This Data Usability Summary Report (DUSR) has been prepared in general compliance with NYSDEC Analytical Services Protocols, USEPA National Functional Guidelines as well as the USEPA Region II SOP, Validating PCB Compounds PCBs by Gas Chromatography SW-846 Method 8082A Rev1, HW-45 Rev. 1, October 2006 and USEPA Region II SOP, Validating Pesticide Compounds Organochlorine Pesticides by Gas Chromatography SW-846 Method 8081B, HW-44 Rev. 1.1, December 2010.

Table 1 provides a summary of major and minor data quality issues identified for this data set. All data are acceptable except those results which have been qualified with "R", rejected. Data qualifiers along with associated descriptions are provided in Table 2. All data qualification related to this group of samples is detailed on the attached sheets.

Per USEPA Region II Validation Guidance, "All data users should note two facts. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables even as a last resort. The second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error."

1. CHAIN OF CUSTODY AND TRAFFIC REPORTS

All chain of custody and traffic reports were present for all samples.

2. HOLDING TIME/SAMPLE HANDLING

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded the data may not be valid. Proper sample handling and preservation also play a role in the chemical stability of analytes in the sample matrix. If samples are not collected and stored using proper containers and/or preservatives data may not be valid.

The samples in this SDG were received by the laboratory within the proper temperature range as specified in the validation guidance.

The samples in this SDG were prepared and analyzed within the holding time specified in the validation guideline.

3. BLANK CONTAMINATION

Quality assurance blanks which include; method, storage, trip, field, or rinse blanks are prepared to identify any contamination which may have been introduced into the samples during laboratory preparation and analysis or field activity. Method and storage blanks measure laboratory contamination. Trip blanks measure cross contamination of samples during shipment. Field and rinse blanks measure cross contamination during field operations.

Method Blank

Method blanks were prepared and analyzed in association with the samples in this SDG at the specified frequency. Upon examination of method blank data, no analyte was positively identified at a concentration equal to or above the method detection limit (MDL) in any associated method blank.

Field Blank

A field blank and/or rinse blank sample is not associated with this SDG. No action was taken based on this.

4. CALIBRATION

Percent Relative Standard Deviation and Percent Difference

Percent relative standard deviation (%RSD) is calculated from the initial calibration and is used to assess the stability of the specific compound response factor (RF) over increasing concentration. Percent difference (%D) compares the RF of the continuing calibration check to the mean RF from the initial calibration. The %D is a measure of the instrument's daily performance. For the PCB fraction, if initial calibration %RSD exceeds 20% (or the coefficient of determination greater than 0.990) or %D exceeds 20% for any analyte, all associated positive results are qualified as estimated, "J" or estimated non-detects, "UJ". If %RSD and %D grossly exceed QC criteria, non-detect data may be qualified "R". For the pesticide fraction, if %RSD exceeds limits outlined in validation guidance (or the coefficient of determination greater than 0.990), qualify all associated positive results "J". If the %D exceeds 20% for any analyte, qualify

all associated positive results "J" and non-detects "UJ". If %RSD and %D grossly exceed QC criteria, non-detect data may be qualified "R".

A multi-point initial calibration employing all target analytes was used to demonstrate instrumental linearity. Initial calibration standards were complete for each column. The coefficient of determination values for all analytes on both analytical columns were within validation guidelines.

Continuing calibrations were analyzed at the proper frequencies. Percent difference values reported for the multi-component continuing calibration verification were assessed. Values for all target analytes met validation criteria on the analytical column from which results were reported. No data qualification was necessary on this basis.

5. INTERNAL STANDARD

An internal standard calibration technique was employed. Bracketed calibration verification standards are not required. However, the retention times of the internal standards and the area responses of the internal standards are to be checked. All internal standards are required to have retention time shifts less than 30 seconds from the retention time of the most recent calibration standard and maintain internal standard areas between -50 to +100%. A retention time shift of greater than 30 seconds and/or and internal standard peak area outside the limit requires reanalysis of sample. All sample extracts are spiked with internal standard prior to analysis and are included in each of the calibration standards.

An internal standard was not employed. No validation action is required on this basis.

6. SURROGATES/SYSTEM MONITORING COMPOUNDS

All samples are spiked with surrogate/system monitoring compounds (SMC) prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique.

Surrogate recovery summaries were present for the samples in this SDG. All observed surrogate standard recoveries for samples and method blanks reported by the validator were within validation acceptance limits.

7. COMPOUND IDENTIFICATION

The retention times of positively reported compounds must fall within the calculated retention time windows for the two-gas chromatographic (GC) columns. Additionally, the %Relative Percent Difference (RPD) of the positive results obtained on the two GC columns must be $\leq 40\%$.

Retention Time

All retention times for positively reported compounds were evaluated. No problems were found with this criterion.

Relative Percent Difference

All RPDs for positively reported compounds were evaluated. No problems were found with this criterion with the following exceptions.

The RPDs were outside the acceptance limit for the samples and analytes outlined in the table below. The positive results reported for the impacted analytes in the samples indicated have been qualified "NJ" on this basis.

Sample	Analytes Impacted
518014-MW-23	hexachlorobenzene
518014-MW-17	chlordanes

8. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The matrix spike/matrix spike duplicate (MS/MSD) data are generated to determine the precision and accuracy of the analytical procedure in a given sample matrix.

Sample 518014-MW-22 was submitted for MS/MSD evaluations in association with this SDG. Upon evaluation all accuracy and precision indicators were acceptable or did not result in a need to qualify sample results.

9. LABORATORY CONTROL SAMPLE

A laboratory control sample (LCS) and LCS duplicate (LCSD) were processed along with the samples in each delivery group. The laboratory applied in-house QC criteria. Both in-house and Region 2 criteria were applied.

All observed precision and accuracy indicators were acceptable or did not result in a need to qualify sample results.

10. REPORTING

This package reports the sample to the base reporting limit. Samples were re-extracted, re-analyzed, and/or analyzed at dilutions as necessary to confirm results or bring analytes into calibration range.

11. OTHER QUALITY CONTROL DATA OUT OF SPECIFICATION

None.

12. DATA COMPLETENESS

All criteria were met.

13. FIELD DUPLICATE

Field duplicates are two (or more) field samples collected at the same time in the same location. Each of the samples represents the same population and is carried through all steps of the sampling and analytical procedures in an identical manner. Field duplicate results are used to assess precision of the total method including sampling, analysis, and site heterogeneity.

Samples 518014-MW-24 and 518014-DUP-1-GW were analyzed as a field duplicate pair in association with this SDG. Adequate field precision was demonstrated.

14. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

Overall, the laboratory data generated met the project goals and quality control criteria.

Table 1
Review Elements Summary

	Were acceptance criteria met?		
	Yes	No	
Pesticides		Major	Minor
Chains of Custody and Traffic Report	x		
Holding Time/Sample Handling	x		
Method Blanks	x		
Field Blanks	NA		
Percent Relative Standard Deviation and Percent Difference	x		
Internal Standard	NA		
Surrogates/System Monitoring Compounds	x		
Compound Identification/Retention Time	x		
Compound Identification/Relative Percent Difference			x
Matrix Spike/Matrix Spike Duplicate	x		
Laboratory Control Sample	x		
Other Quality Control Data out of Specification	x		
Field Duplicate	x		

Major= Major data quality issue identified resulting in rejection of data.

Minor= Minor data quality issue identified resulting in the qualification of data. Data qualification should be used to inform the data users of data limitations.

NA = Not applicable

Table 2
Data Validation Qualifiers

Data Qualifier	Definition
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.



DATA USABILITY SUMMARY REPORT FOR SEMIVOLATILES

PROJECT: NYSDEC Korkay, Incorporated

CLIENT: EA Engineering, Science, and Technology, Inc.

LABORATORY: Con-Test, A Pace Analytical Laboratory

SAMPLE DELIVERY GROUPS: 23E3537

SAMPLE DATES: 05/23/2023

The above sample delivery group (SDG) consists of the following samples:

Client Sample ID	Laboratory Sample ID
518014-MW-23	23E3537-01
518014-ASW	23E3537-02
518014-VEW-2	23E3537-03
518014-VEW-3	23E3537-04
518014-VEW-4	23E3537-05
518014-VEW-1	23E3537-06
518014-K-2	23E3537-07
518014-MW-18	23E3537-08
518014-MW-22	23E3537-09
518014-MW-17	23E3537-10
518014-K-3	23E3537-11
518014-MW-15S	23E3537-12
518014-MW-21	23E3537-13
518014-MW-24	23E3537-14
518014-MW-8S	23E3537-15
518014-DUP-1-GW	23E3537-16
518014-MW-20	23E3537-17

The samples described above were analyzed via USEPA SW-846 8270E to determine the concentrations of semivolatile organic analytes (SVOAs).

Project specific quality assurance (QA) objectives, as well as the USEPA Region II SOP, Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270E, SOP # HW-22 Rev.5, December 2010 have been considered during validation of this data and its usability.

Table 1 provides a summary of major and minor data quality issues identified for this data set. All data are acceptable except those results which have been qualified with "R", rejected. Data validation qualifiers along with associated descriptions are provided in Table 2. All data qualification related to this group of samples is detailed on the attached sheets.

Per USEPA Region 2 Validation Guidance, "All data users should note two facts. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables even as a last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error."

1. HOLDING TIME/SAMPLE HANDLING

The amount of an analyte can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded the data may not be valid. Proper sample handling and preservation also play a role in the chemical stability of analytes in the sample matrix. If samples are not collected and stored using proper containers and/or preservatives, data may not be valid.

The samples in this delivery group were received by the laboratory within the proper temperature range outlined in validation guidance.

The samples in this delivery group were prepared and analyzed within the holding time specified in the validation guidelines.

2. BLANK CONTAMINATION

Quality assurance blanks include method, storage, trip, field, or rinse blanks. Blanks are prepared to identify any contamination, which may have been introduced into the samples during laboratory preparation and analysis or field activity. Method and storage blanks measure laboratory contamination. Trip blanks measure cross contamination during shipment. Field and rinse blanks measure cross contamination during field operations.

Method Blanks

Method blanks were prepared and analyzed in association with the samples in this delivery group at the specified frequency. Upon examination of the method blank data, no analyte was positively identified at a concentration equal to or above the method detection limit (MDL) in any associated method blank.

Field Blanks

No samples were submitted as equipment/field blanks in association with this sample collection event.

3. MASS SPECTROMETER TUNING

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances.

The tuning standard for semivolatiles is decafluorotriphenylphosphine (DFTPP). All tunes were fully compliant for method 8270E.

4. CALIBRATION

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative results. The initial calibration curve demonstrates that the instrument is capable of acceptable performance at the beginning of an analytical sequence. The continuing calibration verifies that the instrument is continuing to provide satisfactory daily performance. Additionally, a continuing calibration is analyzed at the end of each 12-hour analytical sequence, denoted as a "closing" calibration verification and ascertains acceptable performance at the conclusion of the run.

Response Factor

The relative response factor (RRF) measures the instruments responses to specific chemical compounds. The response factors for the target compound list (TCL) analytes must be ≥ 0.05 in both the initial and continuing calibrations. A value less than the respective criteria indicates serious detection and quantitation problems. If the mean RRF of the initial calibration or the continuing calibration RRF is < 0.05 for any analyte, those analytes detected in environmental samples will be qualified as estimated. All non-detects for those analytes will be rejected.

The RRF values in all initial and continuing calibrations were found to be acceptable in all cases.

Percent Relative Standard Deviation and Percent Difference

Percent relative standard deviation (%RSD) is calculated from the initial calibration and is used to indicate stability of a specific compound over the calibration range. Percent difference (%D) compares the response factor of the continuing calibration with the mean response factor of the initial calibration. Therefore, %D is a measure of the instruments daily performance.

The following QC criteria have been applied for this project:

The %RSD of initial calibration must be $< 20\%$.

A %RSD value outside the initial calibration limit indicates the potential for quantitation errors. For this reason, all positive and non-detected results are qualified as estimated. Severe performance failures (RSD $> 90\%$) requires rejection of non-detected results.

The %D for continuing calibration verification (CCV) must be $< 20\%$.

A value outside these limits indicates the potential for detection and quantitation errors. For these reasons, all positive results are qualified as estimated "J," and non-detects are qualified with "UJ."

All initial calibration, initial calibration verification (ICV), and CCV %RSD and %D values were within defined QC criteria with the following exceptions.

The observed %RSD for the analytes listed below were outside acceptance limits in the initial calibration associated with all samples in this SDG. The results reported for the impacted analytes in the associated samples were non-detect and have been qualified "UJ" on this basis.

<i>bis(2-ethylhexyl)phthalate</i>	<i>2,4-dinitrophenol</i>
<i>4,6-dinitro-2-methylphenol</i>	<i>di-n-octylphthalate</i>

The observed %D for benzaldehyde and butylbenzylphthalate were outside acceptance limits in both ICV's associated with all samples in this SDG. All results reported for the impacted analytes in the associated samples were non-detect and have been qualified "UJ" on this basis.

The observed %D for the analytes listed below were outside acceptance limits in one CCV.

<i>butylbenzylphthalate</i>	<i>3-nitroaniline</i>
<i>di-n-octylphthalate</i>	<i>4-nitroaniline</i>

The samples listed in the table below are associated with the non-compliant CCV. The results reported for the impacted analytes were all non-detect and have been qualified "UJ" on this basis.

518014-MW-23	518014-VEW-4	518014-MW-22
518014-ASW	518014-VEW-1	518014-MW-17
518014-VEW-2	518014-K-2	518014-K-3
518014-VEW-3	518014-MW-18	

5. INTERNAL STANDARDS PERFORMANCE

Internal standard performance criteria are meant to ensure that the gas chromatography/mass spectrometry (GC/MS) sensitivity and response are stable during every experimental run.

The internal standard area count must not vary by more than a factor of two from the associated continuing calibration standard. The retention time of the internal standard must not vary by more than +/- 30 seconds from the associated continuing calibration standard. The area count must be within -50% to 200% range of the associated standard. If area count is >200%, non-detected results are not qualified while positive results are qualified "J," estimated. When an observed area count is <50%, results are qualified "J" or "UJ" as appropriate; however, should area counts be <25%, all associated non-detect results are qualified "R," rejected.

The reported sample analysis and associated method blank had internal standard areas within acceptance criteria in all cases.

6. SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation and analyses to evaluate overall laboratory performance and efficiency of the analytical technique.

The reported sample analyses and method blanks had observed surrogate recoveries within the established limits.

7. COMPOUND IDENTIFICATION

Semivolatiles

The TCL compounds are identified on the GC/MS by using the analytes relative retention time (RRT) and ion spectra. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound, and have ion spectra which has a ratio of the primary and secondary ion intensities within 20% of that in the standard compound. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

All identification criteria were met. Therefore, no analytes were qualified for compound identification.

Semivolatiles Tentatively Identified Compounds

Tentatively Identified Compounds (TICs) were reported by the laboratory and reviewed for quality assurance. For all TIC results where there is presumptive evidence of a match, being greater than or equal to an 85% match, the results are qualified "NJ," tentatively identified. If the non-target compound is reported as an unknown, the result is qualified "J," estimated. Likewise, if it is determined that the identification of a TIC is unacceptable, the tentative identification of the compound is changed to "unknown" and the result is qualified "J," estimated.

No semivolatiles TICs were reported.

8. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The matrix spike and matrix spike duplicate (MS/MSD) are generated to determine the precision and accuracy of the analytical procedure in a given sample matrix.

Sample 518014-MW-22 was submitted for MS/MSD evaluation in association with this SDG. Upon evaluation all precision and accuracy indicators were favorable or did not require qualification of sample results with the following exception. The observed recoveries for hexachloroethane in the MS and MSD evaluations were lower than the lowest acceptance limit. The hexachloroethane result reported in the parent sample was non-detect has been qualified "UJ" on this basis.

9. LABORATORY CONTROL SAMPLE

The Laboratory Control Sample (LCS) is spiked with the same analytes at the same concentrations as the matrix spike. The LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

LCS and LCS duplicate (LCSD) evaluations were performed at the proper frequency and resulted in acceptable precision and accuracy with the following exceptions. The observed recoveries for caprolactam and hexachloroethane were lower than the lowest acceptance limits. All samples in the SDG are associated with the non-compliant LCS/LCSD. The results reported for the impacted analytes in the associated samples were non-detect and have been qualified "UJ" on this basis.

10. REPORTING

In the case of dilutions, re-extractions, and other re-analyses, the validator has selected the best and final result for reporting of each analyte. Note when dilutions were performed elevated reporting limits were provided.

11. OTHER QUALITY CONTROL DATA OUT OF SPECIFICATION

No other problems identified.

12. FIELD DUPLICATE

Field duplicates are two (or more) field samples collected at the same time in the same location. Each of the samples represents the same population and is carried through all steps of the sampling and analytical procedures in an identical manner. Field duplicate results are used to assess precision of the total method, including sampling, analysis, and site heterogeneity.

Samples 518014-MW-24 and 518014-DUP-1-GW were analyzed as a field duplicate pair in association with this SDG. Adequate field precision was demonstrated.

13. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

Overall, the laboratory data generated met the project goals and quality control criteria, with the exceptions identified in this report and as summarized in Table 1.

Table 1
Review Elements Summary

	Were acceptance criteria met?		
	Yes	No	
Semivolatile Organics 8270E		Major	Minor
Holding Time/Sample Handling	x		
Method Blanks	x		
Field Blanks	NA		
Mass Spectrometer Tuning	x		
Calibration Response Factor	x		
Calibration Percent Relative Standard Deviation and Percent Difference			x
Internal Standards Performance	x		
Surrogates	x		
Compound Identification - Semivolatile	x		
Tentatively Identified Compounds – Semivolatile	NA		
Matrix Spike/Matrix Spike Duplicate			x
Laboratory Control Sample/Laboratory Control Sample Duplicate			x
Other Quality Control Data out of Specification	x		
Field Duplicate	x		

Major= Major data quality issue identified resulting in rejection of data.

Minor= Minor data quality issue identified resulting in the qualification of data. Data qualification should be used to inform the data users of data limitations.

NA = Not applicable

Table 2
Data Validation Qualifiers

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.



DATA USABILITY SUMMARY REPORT FOR 1,4-DIOXANE

PROJECT: NYSDEC Korkay, Incorporated

CLIENT: EA Engineering, Science, and Technology, Inc.

LABORATORY: Con-Test, A Pace Analytical Laboratory

SAMPLE DELIVERY GROUPS: 23E3537

SAMPLE DATES: 05/23/2023

The above sample delivery group (SDG) consist of the following samples:

Client Sample ID	Laboratory Sample ID
518014-MW-23	23E3537-01
518014-ASW	23E3537-02
518014-VEW-2	23E3537-03
518014-VEW-3	23E3537-04
518014-VEW-4	23E3537-05
518014-VEW-1	23E3537-06
518014-K-2	23E3537-07
518014-MW-18	23E3537-08
518014-MW-22	23E3537-09
518014-MW-17	23E3537-10
518014-K-3	23E3537-11
518014-MW-15S	23E3537-12
518014-MW-21	23E3537-13
518014-MW-24	23E3537-14
518014-MW-8S	23E3537-15
518014-DUP-1-GW	23E3537-16
518014-MW-20	23E3537-17

The samples described above were analyzed via USEPA SW-846 8270E SIM to determine the concentrations of 1,4-dioxane. The method was modified to include isotopic dilution quantitation.

Project specific quality assurance (QA) objectives, as well as the USEPA Region II SOP, Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D, HW-22 Revision 5, December 2010, have been considered during validation of this data and its usability.

Table 1 provides a summary of major and minor data quality issues identified for this data set. All data are acceptable except those results which have been qualified with "R," rejected. Data validation qualifiers along with associated descriptions are provided in Table 2. All data qualification related to this group of samples is detailed on the attached sheets.

Per USEPA Region 2 Validation Guidance, "All data users should note two facts. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables even as a last resort. The second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error."

1. HOLDING TIME/SAMPLE HANDLING

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Proper sample handling and preservation also play a role in the chemical stability of analytes in the sample matrix. If samples are not collected and stored using proper containers and/or preservatives, data may not be valid.

The samples in this delivery group were received by the laboratory within the proper temperature range as specified in the validation guidance.

The samples in this delivery group were prepared and analyzed within the holding time specified in the validation guidelines.

2. BLANK CONTAMINATION

Quality assurance blanks include method, storage, trip, field, or rinse blanks. Blanks are prepared to identify any contamination, which may have been introduced into the samples during laboratory preparation and analysis or field activity. Method and storage blanks measure laboratory contamination. Trip blanks measure cross contamination during shipment. Field and rinse blanks measure cross contamination during field operations.

Method Blanks

No problems were found for this criterion.

Field Blanks

No field blanks were submitted in association with this SDG.

3. MASS SPECTROMETER TUNING

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances.

The tuning standard for semivolatiles is decafluorotriphenylphosphine (DFTPP).

All instrument tunes were fully compliant.

4. CALIBRATION

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative results. The initial calibration curve demonstrates that the instrument is capable of giving acceptable performance at the beginning of an analytical sequence. The continuing calibration verifies that the instrument is continuing to provide satisfactory daily performance. Additionally, a continuing calibration is analyzed at the end of each 12-hour analytical sequence, denoted as a “closing” calibration verification and ascertains acceptable performance at the conclusion of the analytical sequence.

Response Factor

The relative response factor (RRF) measures the instrument's responses to specific chemical compounds. The response factors for the base neutral acid (BNA) target compound list (TCL) analytes must be ≥ 0.05 in both the initial and continuing calibrations. A value less than the respective criteria indicates serious detection and quantitation problems. If the mean RRF of the initial calibration or the continuing calibration RRF is < 0.05 for any analyte, those analytes detected in environmental samples will be qualified as estimated. All non-detects for those analytes will be rejected.

The RRF values in all initial and continuing calibrations were found to be acceptable in all cases.

Note: No closing continuing calibration was performed.

Percent Relative Standard Deviation and Percent Deviation

Percent relative standard deviation (%RSD) is calculated from the initial calibration and is used to indicate stability of a specific compound over the calibration range. Percent deviation (%D) compares the response factor of the continuing calibration with the mean response factor of the initial calibration. Therefore, %D is a measure of the instrument's daily performance.

The following QC criteria have been applied for this project:

The %RSD of initial calibration must be $< 20\%$.

An RSD value outside the initial calibration limit indicates the potential for quantitation errors. For this reason, all positive and non-detected results are qualified as estimated. Severe performance failures (RSD $> 90\%$) requires rejection of non-detected results.

The %D for continuing calibration must be $< 20\%$.

A value outside these limits indicates the potential for detection and quantitation errors. For these reasons, all positive results are qualified as estimated "J," and non-detects are qualified with "UJ."

All initial calibration and continuing calibration %RSD and %D values were within defined quality control criteria without exception.

Note: No closing continuing calibration was performed.

5. INTERNAL STANDARDS PERFORMANCE

Internal standard performance criteria are meant to ensure that the gas chromatograph/mass spectrometer (GC/MS) sensitivity and response are stable during every experimental run.

The internal standard area count must not vary by more than a factor of two from the associated continuing calibration standard. The retention time of the internal standard must not vary by more than ± 30 seconds from the associated continuing calibration standard. The area count must be within -50% to 200% range of the associated standard. If area count is $> 200\%$, non-detected results are not qualified while positive results are qualified "J," estimated. When an observed area count is $< 50\%$, results are qualified "J" or "UJ" as appropriate; however, should area counts be $< 25\%$, all associated non-detects are qualified "R," rejected.

The reported sample analyses and associated method blank had internal standard areas and retention times within QC criteria in all cases.

6. SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation and analyses to evaluate overall laboratory performance and efficiency of the analytical technique.

The reported sample analyses and method blank had observed surrogate recoveries within the limits established by the laboratory in all cases.

7. COMPOUND IDENTIFICATION

Semivolatile

The project target analyte compounds are identified on the GC/MS by using the analytes relative retention time (RRT) and ion spectra. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound and have ion spectra which has a ratio of the primary and secondary ion intensities within 20% of that in the standard compound. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

All identification criteria were met. Therefore, no analytes were qualified for compound identification.

8. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The matrix spike and matrix spike duplicate (MS/MSD) are generated to determine the precision and accuracy of the analytical procedure in a given sample matrix.

Sample 518014-MW-22 was submitted for MS/MSD evaluation in association with this SDG. Upon evaluation all precision and accuracy indicators were favorable.

9. LABORATORY CONTROL SAMPLE

The Laboratory Control Sample (LCS) is spiked with the same analytes at the same concentrations as the matrix spike. The LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

No problems were found for this criterion.

10. REPORTING

No dilutions, re-extractions, or other re-analyses were performed.

11. OTHER QUALITY CONTROL DATA OUT OF SPECIFICATION

No problems were found for this criterion.

12. FIELD DUPLICATE

Field duplicates are two (or more) field samples collected at the same time in the same location. Each of the samples represents the same population and is carried through all steps of the sampling and analytical procedures in an identical manner. Field duplicate results are used to assess precision of the total method, including sampling, analysis, and site heterogeneity.

Samples 518014-MW-24 and 518014-DUP-1-GW were analyzed as a field duplicate pair in association with this SDG. Adequate field precision was demonstrated.

13. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

Overall, the laboratory data generated met the project goals and quality control criteria, with the exceptions identified in this report and as summarized in Table 1.

Table 1
Review Elements Summary

	Were acceptance criteria met?		
	Yes	No	
1,4-Dioxane		Major	Minor
Holding Time/Sample Handling	x		
Method Blanks	x		
Field Blanks	NA		
Mass Spectrometer Tuning	x		
Calibration Response Factor	x		
Calibration Percent Relative Standard Deviation and Percent Difference	x		
Internal Standards Performance	x		
Surrogates	x		
Compound Identification - Semivolatile	x		
Tentatively Identified Compounds - Semivolatile	NA		
Matrix Spike/Matrix Spike Duplicate	x		
Laboratory Control Sample	x		
Other Quality Control Data out of Linear Range	NA		
Field Duplicate	x		

Major= Major data quality issue identified resulting in rejection of data.

Minor= Minor data quality issue identified resulting in the qualification of data. Data qualification should be used to inform the data users of data limitations.

NA = Not applicable

Table 2
Data Validation Qualifiers

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
UJ-	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise, and the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.



DATA USABILITY SUMMARY REPORT FOR VOLATILES

PROJECT: NYSDEC Korkay, Incorporated

CLIENT: EA Engineering, Science, and Technology, Inc.

LABORATORY: Con-Test, A Pace Analytical Laboratory

SAMPLE DELIVERY GROUPS: 23E3537

SAMPLE DATES: 05/23/2023

The above sample delivery group (SDG) consist of the following samples:

Client Sample ID	Laboratory Sample ID
518014-MW-23	23E3537-01
518014-ASW	23E3537-02
518014-VEW-2	23E3537-03
518014-VEW-3	23E3537-04
518014-VEW-4	23E3537-05
518014-VEW-1	23E3537-06
518014-K-2	23E3537-07
518014-MW-18	23E3537-08
518014-MW-22	23E3537-09
518014-MW-17	23E3537-10
518014-K-3	23E3537-11
518014-MW-15S	23E3537-12
518014-MW-21	23E3537-13
518014-MW-24	23E3537-14
518014-MW-8S	23E3537-15
518014-DUP-1-GW	23E3537-16
518014-MW-20	23E3537-17

The samples described above were analyzed via USEPA SW-846 8260D to determine the concentrations of low/medium volatile organic analytes (VOAs).

Project specific quality assurance (QA) objectives, as well as the USEPA Region II SOP, Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B & 8260C, SOP NO. HW-24 Revision 4, September 2014 have been considered during validation of this data and its usability.

Table 1 provides a summary of major and minor data quality issues identified for this data set. All data are acceptable except those results which have been qualified with "R," rejected. Data validation qualifiers along with associated descriptions are provided in Table 2. All data qualification related to this group of samples is detailed on the attached sheets.

Per USEPA Region 2 Validation Guidance, "All data users should note two facts. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables even as a last resort. The second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error."

1. HOLDING TIME/SAMPLE HANDLING

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Proper sample handling and preservation also play a role in the chemical stability of analytes in the sample matrix. If samples are not collected and stored using proper containers and/or preservatives, data may not be valid.

The samples in this SDG were received by the laboratory within the proper temperature range as specified in the validation guidance.

The samples in this SDG were prepared and analyzed within the holding time specified in the validation guidelines.

2. BLANK CONTAMINATION

Quality assurance blanks include method, storage, trip, field, or rinse blanks. Blanks are prepared to identify any contamination, which may have been introduced into the samples during preparation and analysis or field activity. Method and storage blanks measure laboratory contamination. Trip blanks measure cross contamination during shipment. Field and rinse blanks measure cross contamination during field operations.

Method Blanks

Method blanks were prepared and analyzed in association with the samples in these SDGs at the specified frequency. Upon examination of method blank data, no analyte was positively identified at a concentration equal to or above the method detection limit (MDL) in any associated method blank.

Storage Blanks

No storage blanks were submitted in association with this SDG.

Trip Blanks

No sample was submitted as a trip blank in association with this SDG.

Field Blanks

No sample was submitted as a field blank in association with this SDG.

3. MASS SPECTROMETER TUNING

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances.

The tuning standard for volatiles is bromofluorobenzene (BFB).

All tunes associated with this SDG were fully compliant.

4. CALIBRATION

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative results. The initial calibration curve demonstrates that the instrument is capable of giving acceptable performance at the beginning of an analytical sequence. The continuing calibration verifies that the instrument is continuing to provide satisfactory daily performance. Additionally, a continuing calibration is analyzed at the end of each 12-hour analytical sequence, denoted as a "closing" calibration verification, and ascertains acceptable performance at the conclusion of the analytical sequence.

Response Factor

The relative response factor (RRF) measures the instruments responses to specific chemical compounds. The RRFs for the VOA target compound list (TCL) compounds must be greater than the RRFs listed in Region II validation guidelines. A value less than the respective criteria indicates serious detection and quantitation problems. If the mean RRF of the initial calibration or the continuing calibration RRF is below the specified limit for any analyte, those analytes detected in environmental samples will be qualified as estimated. All non-detects for those analytes will be rejected.

The RRF values in all initial and continuing calibrations for method 8260C were found to be acceptable in all cases.

Percent Relative Standard Deviation and Percent Deviation

Percent relative standard deviation (%RSD) is calculated from the initial calibration and is used to indicate stability of a specific compound over the calibration range. Percent deviation (%D) compares the response factor of the continuing calibration with the mean response factor of the initial calibration. Therefore, %D is a measure of the instrument's daily performance.

The following QC criteria have been applied for this project:

The %RSD of initial calibration must be $\leq 20\%$.

A %RSD value outside initial calibration limit indicates the potential for quantitation errors. For this reason, all positive results are qualified as estimated and non-detect results are qualified using professional judgement.

The %D for opening continuing calibration must be $\leq 30\%$

A value outside these limits indicates the potential for detection and quantitation errors. For these reasons, all positive results are qualified as "J," estimated, and non-detects are qualified with "UJ."

All initial calibration and continuing calibration %RSD and %D values were within defined QC criteria.

Please note, the laboratory did not perform closing continuing calibration verifications. Therefore, those criteria were not evaluated during validation. No qualification was applied on this basis.

5. INTERNAL STANDARDS PERFORMANCE

Internal standard performance criteria are meant to ensure that the gas chromatography/mass spectrometry (GC/MS) sensitivity and response are stable during every experimental run.

The internal standard area count must not vary by more than a factor of two from the associated continuing calibration standard. The retention time of the internal standard must not vary by more than +/- 30 seconds from the associated continuing calibration standard. The area count must be within -50% to +200% range of the associated standard. If area count is >200%, non-detected results are not qualified while positive results associated with the non-compliant internal standard are qualified "J," estimated. However, when an observed area count is <50%, positive results associated with the non-compliant are qualified "J," estimated, while non-detected results are rejected.

Internal standard area counts are within acceptance criteria for all samples.

6. SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation and analyses to evaluate overall laboratory performance and efficiency of the analytical technique. The observed recovery must be within laboratory limits as outlined in the project specific validation guidance.

The reported sample analyses had observed surrogate recoveries within the established acceptance limits in all cases.

7. COMPOUND IDENTIFICATION

Volatile

The project target analyte compounds are identified on the GC/MS by using the analytes relative retention time (RRT) and ion spectra. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound and have ion spectra which has a ratio of the primary and secondary ion intensities within 20% of that in the standard compound. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

All samples were evaluated, and all identification criteria were met. Therefore, no analytes were qualified for compound identification.

Volatile Tentatively Identified Compounds

Tentatively Identified Compounds (TICs) were reported by the laboratory and reviewed for quality assurance. For all TIC results where there is presumptive evidence of a match, being greater than or equal to 85% match, the results are qualified "NJ," tentatively identified. If the non-target compound is reported as an unknown, the result is qualified "J," estimated. Likewise, if it is determined that the identification of a TIC is unacceptable, the tentative identification of the compound is changed to "unknown" and the result is qualified "J," estimated.

Volatile TICs were not reported.

8. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The matrix spike and matrix spike duplicate (MS/MSD) are generated to determine the precision and accuracy of the analytical procedure in a given sample matrix.

Sample 518014-MW-22 was submitted for MS/MSD pair evaluation in association with this SDG. Upon evaluation precision and accuracy indicators were acceptable or did not result in a need to qualify sample results with the following exceptions.

The observed MS and MSD recoveries for bromoform and methyl acetate were lower than the lowest acceptance limit. The non-detected results reported for the impacted analytes in the parent sample have been qualified estimated "UJ" on this basis.

The observed MS and MSD recoveries for methyl tert-butyl ether were lower than the lowest acceptance limit. The detected result reported for the impacted analyte in the parent sample has been qualified estimated "J" on this basis.

9. LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE

The Laboratory Control Sample (LCS) is spiked with the same analytes at the same concentrations as the matrix spike. The LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

LCS/LCS duplicate (LCSD) evaluations were processed at the proper frequency. Upon evaluation all accuracy and precision criteria were acceptable.

10. REPORTING

No dilutions, re-extractions, or other re-analyses were performed other than those necessary to bring positive instrument signals within the linear range.

11. OTHER QUALITY CONTROL DATA OUT OF SPECIFICATION

The laboratory reported for 1,4-dioxane via SW 846 method 8260C and SW 846 method 8270 SIM. The results reported via SW 846 method 8260C were flagged as non-reportable by the data validator.

12. FIELD DUPLICATE

Field duplicates are two (or more) field samples collected at the same time in the same location. Each of the samples represents the same population and is carried through all steps of the sampling and analytical procedures in an identical manner. Field duplicate results are used to assess precision of the total method, including sampling, analysis, and site heterogeneity.

Samples 518014-MW-24 and 518014-DUP-1-GW were analyzed as a field duplicate pair in association with these SDGs. Adequate field precision was demonstrated.

13. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

Overall, the laboratory data generated met the project goals and quality control criteria, with the exceptions identified in this report and as summarized in Table 1.

Table 1
Review Elements Summary

	Were acceptance criteria met?		
	Yes	No	
Volatiles		Major	Minor
Holding Time	x		
Method Blanks	x		
Storage Blanks	NA		
Trip Blanks	NA		
Field Blanks	NA		
Mass Spectrometer Tuning	x		
Calibration Response Factor	x		
Calibration Percent Relative Standard Deviation and Percent Difference	x		
Internal Standards	x		
Surrogates	x		
Compound Identification - Volatile	x		
Tentatively Identified Compounds - Volatile	NA		
Matrix Spike/Matrix Spike Duplicate			x
Laboratory Control Sample/Laboratory Control Sample Duplicate	x		
Other Quality Control Data out of Specification	x		
Field Duplicate	x		

Major= Major data quality issue identified resulting in rejection of data.

Minor= Minor data quality issue identified resulting in the qualification of data. Data qualification should be used to inform the data users of data limitations.

NA = Not applicable

Table 2
Data Validation Qualifiers

Data Qualifier	Definition
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.



DATA USABILITY SUMMARY REPORT FOR PESTICIDES

PROJECT: NYSDEC Korkay, Incorporated

CLIENT: EA Engineering, Science, and Technology, Inc.

LABORATORY: Con-Test, A Pace Analytical Laboratory

SAMPLE DELIVERY GROUPS: 23E3538

SAMPLE DATES: 05/23/2023 and 05/24/2023

The above sample delivery group (SDG) consist of the following samples:

Client Sample ID	Laboratory Sample ID
518014-MW-19	23E3538-01
518014-MW-16D	23E3538-02
518014-MW-15D	23E3538-03
518014-SW-02	23E3538-04
518014-SD-02	23E3538-05
518014-SW-01	23E3538-06
518014-SD-01	23E3538-07
518014-FD-01-SW	23E3538-08
518014-FD-01-SD	23E3538-09
518014-SW-03	23E3538-10
518014-SD-03	23E3538-11

The samples described above were analyzed via United States Environmental Protection Agency (USEPA) SW846 Method 8082A to determine the concentrations of Aroclor polychlorinated biphenyls (PCBs) and Method 8081B to determine the concentrations of organochlorine pesticides.

This Data Usability Summary Report (DUSR) has been prepared in general compliance with NYSDEC Analytical Services Protocols, USEPA National Functional Guidelines as well as the USEPA Region II SOP, Validating PCB Compounds PCBs by Gas Chromatography SW-846 Method 8082A Rev1, HW-45 Rev. 1, October 2006 and USEPA Region II SOP, Validating Pesticide Compounds Organochlorine Pesticides by Gas Chromatography SW-846 Method 8081B, HW-44 Rev. 1.1, December 2010.

Table 1 provides a summary of major and minor data quality issues identified for this data set. All data are acceptable except those results which have been qualified with "R", rejected. Data qualifiers along with associated descriptions are provided in Table 2. All data qualification related to this group of samples is detailed on the attached sheets.

Per USEPA Region II Validation Guidance, "All data users should note two facts. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables even as a last resort. The second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error."

1. CHAIN OF CUSTODY AND TRAFFIC REPORTS

All chain of custody and traffic reports were present for all samples.

2. HOLDING TIME/SAMPLE HANDLING

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded the data may not be valid. Proper sample handling and preservation also play a role in the chemical stability of analytes in the sample matrix. If samples are not collected and stored using proper containers and/or preservatives data may not be valid.

The samples in this SDG were received by the laboratory within the proper temperature range as specified in the validation guidance.

The samples in this SDG were prepared and analyzed within the holding time specified in the validation guideline for all reported analyses.

3. BLANK CONTAMINATION

Quality assurance blanks which include; method, storage, trip, field, or rinse blanks are prepared to identify any contamination which may have been introduced into the samples during laboratory preparation and analysis or field activity. Method and storage blanks measure laboratory contamination. Trip blanks measure cross contamination of samples during shipment. Field and rinse blanks measure cross contamination during field operations.

Method Blank

Method blanks were prepared and analyzed in association with the samples in this SDG at the specified frequency. Upon examination of method blank data, no analyte was positively identified at a concentration equal to or above the method detection limit (MDL) in any associated method blank.

Field Blank

A field blank and/or rinse blank sample is not associated with this SDG. No action was taken based on this.

4. CALIBRATION

Percent Relative Standard Deviation and Percent Difference

Percent relative standard deviation (%RSD) is calculated from the initial calibration and is used to assess the stability of the specific compound response factor (RF) over increasing concentration. Percent difference (%D) compares the RF of the continuing calibration check to the mean RF from the initial calibration. The %D is a measure of the instrument's daily performance. For the PCB fraction, if initial calibration %RSD exceeds 20% (or the coefficient of determination greater than 0.990) or %D exceeds 20% for any analyte, all associated positive results are qualified as estimated, "J" or estimated non-detects, "UJ". If %RSD and %D grossly exceed QC criteria, non-detect data may be qualified "R". For the pesticide fraction, if %RSD exceeds limits outlined in validation guidance (or the coefficient of determination greater than 0.990), qualify all associated positive results "J". If the %D exceeds 20% for any analyte, qualify

all associated positive results "J" and non-detects "UJ". If %RSD and %D grossly exceed QC criteria, non-detect data may be qualified "R".

A multi-point initial calibration employing all target analytes was used to demonstrate instrumental linearity. Initial calibration standards were complete for each column. The coefficient of determination values for all analytes on both analytical columns were within validation guidelines.

Continuing calibrations were analyzed at the proper frequencies. Percent difference in a multi-component continuing calibration verification was assessed. Values for all target analytes met validation criteria on at the reporting analytical column with the following exceptions.

The %D value for alpha-BHC was outside of acceptance limits for a continuing calibration verification (CCV) associated with the samples listed in the table below. The results reported for the impacted analyte in the associated samples have been qualified "UJ" on this basis.

518014-FD-01-SD	518014-SD-01	518014-SD-02	518014-SD-03

5. INTERNAL STANDARD

An internal standard calibration technique was employed. Bracketed calibration verification standards are not required. However, the retention times of the internal standards and the area responses of the internal standards are to be checked. All internal standards are required to have retention time shifts less than 30 seconds from the retention time of the most recent calibration standard and maintain internal standard areas between -50 to +100%. A retention time shift of greater than 30 seconds and/or and internal standard peak area outside the limit requires reanalysis of sample. All sample extracts are spiked with internal standard prior to analysis and are included in each of the calibration standards.

An internal standard was not employed. No validation action is required on this basis.

6. SURROGATES/SYSTEM MONITORING COMPOUNDS

All samples are spiked with surrogate/system monitoring compounds (SMC) prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique.

Surrogate recovery summaries were present for the samples in this SDG. All observed surrogate standard recoveries for samples and method blanks reported by the validator were within validation acceptance limits with the following exception. All surrogate recoveries were less than the lower acceptance limit during the analysis of sample 518014-SD-01. All results reported for the impacted sample have been qualified "UJ" on this basis.

7. COMPOUND IDENTIFICATION

The retention times of positively reported compounds must fall within the calculated retention time windows for the two-gas chromatographic (GC) columns. Additionally, the %Relative Percent Difference (RPD) of the positive results obtained on the two GC columns must be ≤ 40%.

Retention Time

The were no positively reported compounds to evaluate.

Relative Percent Difference

The were no positively reported compounds to evaluate.

8. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The matrix spike/matrix spike duplicate (MS/MSD) data are generated to determine the precision and accuracy of the analytical procedure in a given sample matrix.

Sample 518014-SW-02 was submitted for MS/MSD evaluations in association with this SDG. Upon evaluation all accuracy and precision indicators were acceptable.

Sample 518014-SD-02 was submitted for MS/MSD evaluations in association with this SDG. Upon evaluation all accuracy and precision indicators were acceptable or did not result in a need to qualify sample results.

9. LABORATORY CONTROL SAMPLE

A laboratory control sample (LCS) and LCS duplicate (LCSD) were processed along with the samples in each delivery group. The laboratory applied in-house QC criteria. Both in-house and Region 2 criteria were applied.

All observed precision and accuracy indicators were acceptable or did not result in a need to qualify sample results.

10. REPORTING

This package reports the sample to the base reporting limit. Samples were re-extracted, re-analyzed, and/or analyzed at dilutions as necessary to confirm results or bring analytes into calibration range.

11. OTHER QUALITY CONTROL DATA OUT OF SPECIFICATION

None.

12. DATA COMPLETENESS

All criteria were met.

13. FIELD DUPLICATE

Field duplicates are two (or more) field samples collected at the same time in the same location. Each of the samples represents the same population and is carried through all steps of the sampling and analytical procedures in an identical manner. Field duplicate results are used to assess precision of the total method including sampling, analysis, and site heterogeneity.

Samples 518014-SD-02 and 518014-FD-01-SD were analyzed as a field duplicate pair in association with this SDG. Adequate field precision was demonstrated.

Samples 518014-SW-02 and 518014-FD-01-SW were analyzed as a field duplicate pair in association with this SDG. Adequate field precision was demonstrated.

14. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

Overall, the laboratory data generated met the project goals and quality control criteria.

Table 1
Review Elements Summary

	Were acceptance criteria met?		
	Yes	No	
Pesticides		Major	Minor
Chains of Custody and Traffic Report	x		
Holding Time/Sample Handling	x		
Method Blanks	x		
Field Blanks	NA		
Percent Relative Standard Deviation and Percent Difference			x
Internal Standard	NA		
Surrogates/System Monitoring Compounds			x
Compound Identification/Retention Time	x		
Compound Identification/Relative Percent Difference	x		
Matrix Spike/Matrix Spike Duplicate	x		
Laboratory Control Sample	x		
Other Quality Control Data out of Specification	x		
Field Duplicate	x		

Major= Major data quality issue identified resulting in rejection of data.

Minor= Minor data quality issue identified resulting in the qualification of data. Data qualification should be used to inform the data users of data limitations.

NA = Not applicable

Table 2
Data Validation Qualifiers

Data Qualifier	Definition
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.



**DATA USABILITY SUMMARY REPORT
FOR MISCELLANEOUS CHEMISTRY**

PROJECT: NYSDEC Korkay, Incorporated

CLIENT: EA Engineering, Science, and Technology, Inc.

LABORATORY: Con-Test; A Pace Analytical Laboratory

SAMPLE DELIVERY GROUP: 23E3538

SAMPLE DATES: 05/24/2023

The above sample delivery group (SDG) consist of the following samples:

Client Sample Identification	Laboratory Sample Identification
518014-SD-02	23E3538-05
518014-SD-01	23E3538-07
518014-FD-01-SD	23E3538-09
518014-SD-03	23E3538-11

The samples described above were analyzed via Standard Method 5310B to determine concentrations of total organic carbon (TOC).

Project specific quality assurance (QA) objectives and United States Environmental Protection Agency (USEPA) National Functional Guidelines for Inorganic Superfund Methods Data Review, OLEM 9240.1-66 EPA-542-R-20-006, November 2020, (USEPA 2020) have been considered during validation of this data and its usability.

Table 1 provides a summary of major and minor data quality issues identified for this data set. All data are acceptable except those results which have been qualified with "R", rejected. Data validation qualifiers along with associated descriptions are provided in Table 2. All data qualification related to this group of samples is detailed on the attached sheets.

All data users should note two facts. First, an "R" flag means that the associated value is unusable due to significant quality control (QC) problems, the data is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on any data tables even as a last resort. Second, no analyte concentration, even if it passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

1. CHAIN OF CUSTODY AND TRAFFIC REPORTS:

All chain of custody and traffic reports were present for all samples.

2. HOLDING TIME / SAMPLE HANDLING:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes in the samples whose holding time has been exceeded will be qualified as estimated, "J-", or unusable, "R", if holding times are grossly exceeded.

The samples in this SDG were received by the laboratory within the proper temperature range as specified in the validation guidance.

The samples in this SDG were prepared and analyzed within the holding time specified in the validation guideline for all reported analyses.

3. CALIBRATION:

Method requirements for satisfactory instrument or procedural calibration are established to ensure that the instrument can produce acceptable quantitative data. Initial calibration verification (ICV) demonstrates that the instrument is capable of acceptable performance at the beginning of the analytical run. Continuing calibration verification (CCV) demonstrates that the initial calibration is still valid by checking the performance of the instrument on a continuing basis.

Immediately after each system has been calibrated, the accuracy of the initial calibration must be verified and documented for each target analyte by the analysis of an ICV solution(s). The CCV standard shall be analyzed at a frequency of every 10 samples. The percent relative standard deviation (%RSD) and/or the correlation coefficient should be within quality control limits for the initial calibration. ICV and CCV recoveries should be within quality control limits. Qualifications were applied to the samples and analytes as shown below.

Calibrations were performed at the appropriate frequency. The Coefficient of variation/determination values were within acceptable criteria in all cases and all calibration verifications were within acceptance criteria.

4. BLANK CONTAMINATION:

Quality assurance blanks include method, storage, trip, field, or rinse blanks. Blanks are prepared to identify any contamination, which may have been introduced into the samples during laboratory preparation and analysis or field activity. Method and storage blanks measure laboratory contamination. Trip blanks measure cross contamination during shipment. Field and rinse blanks measure cross contamination during field operations.

A) Method Blanks

Method blanks were analyzed with appropriate frequency. No problems were found for this criterion with the following exception. The method blanks associated with all samples in this SDG exhibited positive results for TOC. Positive sample results for the impacted analytes have been evaluated and validation action was not required on this basis.

B) Field/Equipment Blanks

No sample was submitted as a field/equipment blank in association with the samples in this SDG.

5. LABORATORY CONTROL SAMPLE:

The Laboratory Control Sample (LCS) serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. The LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

No problems were found for this criterion with the following exception. Poor precision was demonstrated for the LCS/LCSD pair. All samples in this SDG are associated with the noncompliant LCS/LCSD. The positive results reported for the impacted analyte in the associated samples have been qualified estimated "J" on this basis.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY:

The matrix spike/matrix spike duplicate (MS/MSD) sample analysis is designed to provide information about the effect of each sample matrix on the sample preparation procedures and the measurement methodology. The spike percent recovery must fall within the established laboratory acceptance limits. However, spike recovery limits do not apply when the sample concentration is ≥ 4 x the spike added. For a spike analysis that does not meet the technical criteria, the action was applied to all samples in the preparation batch.

Sample 518014-SD-02 was submitted for MSMSD evaluation for TOC in association with this SDG. Upon evaluation all accuracy indicators were acceptable with the following exceptions. The observed recoveries for TOC were lower than the lowest acceptance limit during both the MS and MSD evaluations. The positive result reported for the impacted analyte in the parent sample has been qualified estimated low "J-" on this basis.

7. LABORATORY DUPLICATE:

The laboratory duplicate sample analysis is performed to determine long-term precision of the analytical method in a given matrix. The relative percent difference (RPD) between the sample and its duplicate may be used to qualify data.

No sample was submitted for laboratory duplicate pair evaluation in association with this SDG.

8. FIELD DUPLICATES:

Field duplicates are two (or more) field samples collected at the same time in the same location. Each of the samples represents the same population and is carried through all steps of the sampling and analytical procedures in an identical manner. Field duplicate results are used to assess precision of the total method, including sampling, analysis, and site heterogeneity.

Samples 518014-SD-02 and 518014-FD-01-SD were submitted as a field duplicate pair in association with this SDG. Adequate field precision was not demonstrated. Results reported for the impacted analyte in the field duplicate samples have been qualified estimated "J" on this basis.

OTHER PROBLEMS:

No other problems were found.

Table 1
Review Elements Summary

	Were acceptance criteria met?		
	Yes	No	
TOC		Major	Minor
Holding Time/Sample Handling	X		
Calibration	X		
Blank Contamination	X		
Laboratory Control Sample			x
Matrix Spike/Matrix Spike Duplicate			x
Laboratory Duplicate	NA		
Field Duplicate			x
Other	X		

Major = Major data quality issue identified resulting in rejection of data.

Minor = Minor data quality issue identified resulting in the qualification of data. Data qualification should be used to inform the data users of data limitations.

NA = Not applicable

Table 2
Data Validation Qualifiers

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.



DATA USABILITY SUMMARY REPORT FOR SEMIVOLATILES

PROJECT: NYSDEC Korkay, Incorporated

CLIENT: EA Engineering, Science, and Technology, Inc.

LABORATORY: Con-Test, A Pace Analytical Laboratory

SAMPLE DELIVERY GROUPS: 23E3538

SAMPLE DATES: 05/23/2023 and 05/24/2023

The above sample delivery group (SDG) consists of the following samples:

Client Sample ID	Laboratory Sample ID
518014-MW-19	23E3538-01
518014-MW-16D	23E3538-02
518014-MW-15D	23E3538-03
518014-SW-02	23E3538-04
518014-SD-02	23E3538-05
518014-SW-01	23E3538-06
518014-SD-01	23E3538-07
518014-FD-01-SW	23E3538-08
518014-FD-01-SD	23E3538-09
518014-SW-03	23E3538-10
518014-SD-03	23E3538-11

The samples described above were analyzed via USEPA SW-846 8270E to determine the concentrations of semivolatile organic analytes (SVOAs).

Project specific quality assurance (QA) objectives, as well as the USEPA Region II SOP, Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270E, SOP # HW-22 Rev.5, December 2010 have been considered during validation of this data and its usability.

Table 1 provides a summary of major and minor data quality issues identified for this data set. All data are acceptable except those results which have been qualified with "R", rejected. Data validation qualifiers along with associated descriptions are provided in Table 2. All data qualification related to this group of samples is detailed on the attached sheets.

Per USEPA Region 2 Validation Guidance, "All data users should note two facts. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables even as a last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error."

1. HOLDING TIME/SAMPLE HANDLING

The amount of an analyte can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded the data may not be valid. Proper sample handling and preservation also play a role in the chemical stability of analytes in the sample matrix. If samples are not collected and stored using proper containers and/or preservatives, data may not be valid.

The samples in this delivery group were received by the laboratory within the proper temperature range outlined in validation guidance.

The samples in this delivery group were prepared and analyzed within the holding time specified in the validation guidelines.

2. BLANK CONTAMINATION

Quality assurance blanks include method, storage, trip, field, or rinse blanks. Blanks are prepared to identify any contamination, which may have been introduced into the samples during laboratory preparation and analysis or field activity. Method and storage blanks measure laboratory contamination. Trip blanks measure cross contamination during shipment. Field and rinse blanks measure cross contamination during field operations.

Method Blanks

Method blanks were prepared and analyzed in association with the samples in this delivery group at the specified frequency. Upon examination of the method blank data, no analyte was positively identified at a concentration equal to or above the method detection limit (MDL) in any associated method blank or did not require qualification of sample results.

Field Blanks

No samples were submitted as equipment/field blanks in association with this sample collection event.

3. MASS SPECTROMETER TUNING

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances.

The tuning standard for semivolatiles is decafluorotriphenylphosphine (DFTPP). All tunes were fully compliant for method 8270E.

4. CALIBRATION

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative results. The initial calibration curve demonstrates that the instrument is capable of acceptable performance at the beginning of an analytical sequence. The continuing calibration verifies that the instrument is continuing to provide satisfactory daily performance. Additionally, a continuing calibration is analyzed at the end of each 12-hour analytical sequence, denoted as a "closing" calibration verification and ascertains acceptable performance at the conclusion of the run.

Response Factor

The relative response factor (RRF) measures the instruments responses to specific chemical compounds. The response factors for the target compound list (TCL) analytes must be ≥ 0.05 in both the initial and continuing calibrations. A value less than the respective criteria indicates serious detection and quantitation problems. If the mean RRF of the initial calibration or the continuing calibration RRF is < 0.05 for any analyte, those analytes detected in environmental samples will be qualified as estimated. All non-detects for those analytes will be rejected.

The RRF values in all initial and continuing calibrations were found to be acceptable in all cases.

Percent Relative Standard Deviation and Percent Difference

Percent relative standard deviation (%RSD) is calculated from the initial calibration and is used to indicate stability of a specific compound over the calibration range. Percent difference (%D) compares the response factor of the continuing calibration with the mean response factor of the initial calibration. Therefore, %D is a measure of the instruments daily performance.

The following QC criteria have been applied for this project:

The %RSD of initial calibration must be $< 20\%$.

A %RSD value outside the initial calibration limit indicates the potential for quantitation errors. For this reason, all positive and non-detected results are qualified as estimated. Severe performance failures (RSD $> 90\%$) requires rejection of non-detected results.

The %D for continuing calibration verification (CCV) must be $< 20\%$.

A value outside these limits indicates the potential for detection and quantitation errors. For these reasons, all positive results are qualified as estimated "J," and non-detects are qualified with "UJ."

All initial calibration, initial calibration verification (ICV), and CCV %RSD and %D values were within defined QC criteria with the following exceptions.

The observed %RSD for the analytes listed below were outside acceptance limits in the initial calibration on instrument GCMSSV9.

<i>bis(2-ethylhexyl)phthalate</i>	<i>2,4-dinitrophenol</i>
<i>4,6-dinitro-2-methylphenol</i>	<i>di-n-octylphthalate</i>

The samples listed below are associated with the non-compliant calibration. The results reported for the impacted analytes were all non-detect and have been qualified "UJ" on this basis.

<i>518014-MW-19</i>	<i>518014-SW-02</i>	<i>518014-SW-03</i>
<i>518014-MW-16D</i>	<i>518014-SW-01</i>	
<i>518014-MW-15D</i>	<i>518014-FD-01-SW</i>	

The observed %D for benzaldehyde and butylbenzylphthalate were outside acceptance limits in the ICV on instrument GCMSSV9. The samples listed below are associated with the non-compliant ICV. The results reported for the impacted analytes were all non-detect and have been qualified "UJ" on this basis.

518014-MW-19	518014-SW-02	518014-SW-03
518014-MW-16D	518014-SW-01	
518014-MW-15D	518014-FD-01-SW	

The observed %D for the analytes listed below were outside acceptance limits in the CCV on instrument GCMSSV9.

butylbenzylphthalate	3-nitroaniline
di-n-octylphthalate	4-nitroaniline

The samples listed in the table below are associated with the non-compliant CCV. The results reported for the impacted analytes were all non-detect and have been qualified "UJ" on this basis.

518014-MW-19	518014-SW-02	518014-SW-03
518014-MW-16D	518014-SW-01	
518014-MW-15D	518014-FD-01-SW	

The observed %D for 4-chloroaniline and 3,3-dichlorobenzidine were outside acceptance limits in the ICV on instrument GCMSSV4. The samples listed below are associated with the non-compliant ICV. The results reported for the impacted analytes were all non-detect and have been qualified "UJ" on this basis.

518014-SD-02	518014-FD-01-SD
518014-SD-01	518014-SD-03

The observed %D for bis(2-chloroisopropyl)ether, 2-nitroaniline, and n-nitrosodimethylamine were outside acceptance limits in the CCV on instrument GCMSSV4. The samples listed below are associated with the non-compliant CCV. The results reported for the impacted analytes were all non-detect and have been qualified "UJ" on this basis.

518014-SD-02	518014-FD-01-SD
518014-SD-01	518014-SD-03

5. INTERNAL STANDARDS PERFORMANCE

Internal standard performance criteria are meant to ensure that the gas chromatography/mass spectrometry (GC/MS) sensitivity and response are stable during every experimental run.

The internal standard area count must not vary by more than a factor of two from the associated continuing calibration standard. The retention time of the internal standard must not vary by more than +/- 30 seconds from the associated continuing calibration standard. The area count must be within -50% to 200% range of the associated standard. If area count is >200%, non-detected results are not qualified while positive results are qualified "J," estimated. When an observed area count is <50%, results are qualified "J" or "UJ" as appropriate; however, should area counts be <25%, all associated non-detect results are qualified "R," rejected.

The reported sample analysis and associated method blank had internal standard areas within acceptance criteria in all cases.

6. SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation and analyses to evaluate overall laboratory performance and efficiency of the analytical technique.

The reported sample analyses and method blanks had observed surrogate recoveries within the established limits.

7. COMPOUND IDENTIFICATION

Semivolatile

The TCL compounds are identified on the GC/MS by using the analytes relative retention time (RRT) and ion spectra. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound, and have ion spectra which has a ratio of the primary and secondary ion intensities within 20% of that in the standard compound. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

All identification criteria were met. Therefore, no analytes were qualified for compound identification.

Semivolatile Tentatively Identified Compounds

Tentatively Identified Compounds (TICs) were reported by the laboratory and reviewed for quality assurance. For all TIC results where there is presumptive evidence of a match, being greater than or equal to an 85% match, the results are qualified "NJ," tentatively identified. If the non-target compound is reported as an unknown, the result is qualified "J," estimated. Likewise, if it is determined that the identification of a TIC is unacceptable, the tentative identification of the compound is changed to "unknown" and the result is qualified "J," estimated.

No semivolatile TICs were reported.

8. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The matrix spike and matrix spike duplicate (MS/MSD) are generated to determine the precision and accuracy of the analytical procedure in a given sample matrix.

Sample 518014-SW-02 was submitted for MS/MSD evaluation in association with this SDG. Upon evaluation all precision and accuracy indicators were favorable or did not require qualification of samples results with the following exceptions. The observed recoveries for caprolactam, hexachlorobutadiene, and hexachloroethane were lower than the lowest acceptance limits in both the MS and MSD. The impacted analyte results reported in the parent sample were non-detect and have been qualified "UJ" on this basis.

Sample 518014-SD-02 was submitted for MS/MSD evaluation in association with this SDG. Upon evaluation all precision and accuracy indicators were favorable with the following exception. The observed recovery for hexachlorocyclopentadiene was extremely low (<10%) in both the MS and MSD. The hexachlorocyclopentadiene result reported in the parent sample was non-detect and has been qualified "R" on this basis.

9. LABORATORY CONTROL SAMPLE

The Laboratory Control Sample (LCS) is spiked with the same analytes at the same concentrations as the matrix spike. The LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

LCS and LCS duplicate (LCSD) evaluations were performed at the proper frequency and resulted in acceptable precision and accuracy or did not require qualification of sample results with the following exceptions.

The observed recoveries for caprolactam and hexachloroethane were lower than the lowest acceptance limits in LCS B341710-BS1 associated with samples 518014-MW-19 and 518014-MW-16D. Results reported for the impacted analytes in the associated samples were non-detect and have been qualified "UJ" on this basis.

The observed recoveries for the analytes listed below were lower than the lowest acceptance limits in LCS B341819-BS1.

<i>caprolactam</i>	<i>hexachloroethane</i>
<i>hexachlorobutadiene</i>	<i>hexachlorocyclopentadiene</i>

The samples listed below were associated with the non-compliant LCS/LCSD. Results reported for the impacted analytes in the associated samples were non-detect and have been qualified "UJ" on this basis.

<i>518014-MW-15D</i>	<i>518014-SW-01</i>
<i>518014-SW-02</i>	<i>518014-SW-03</i>

The observed recoveries for caprolactam, hexachloroethane, and hexachlorobutadiene were lower than the lowest acceptance limits in LCS B341823-BS1 associated with sample 518014-FD-01-SW. Results reported for the impacted analytes in the associated sample were all non-detect and have been qualified "UJ" on this basis.

10. REPORTING

In the case of dilutions, re-extractions, and other re-analyses, the validator has selected the best and final result for reporting of each analyte. Note when dilutions were performed elevated reporting limits were provided.

11. OTHER QUALITY CONTROL DATA OUT OF SPECIFICATION

No other problems identified.

12. FIELD DUPLICATE

Field duplicates are two (or more) field samples collected at the same time in the same location. Each of the samples represents the same population and is carried through all steps of the sampling and analytical procedures in an identical manner. Field duplicate results are used to assess precision of the total method, including sampling, analysis, and site heterogeneity.

Samples 518014-SD-02 and 518014-FD-01-SD were analyzed as a field duplicate pair in association with this SDG. Adequate field precision was demonstrated.

Samples 518014-SW-02 and 518014-FD-01-SW were analyzed as a field duplicate pair in association with this SDG. Adequate field precision was demonstrated.

13. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

Overall, the laboratory data generated met the project goals and quality control criteria, with the exceptions identified in this report and as summarized in Table 1.

Table 1
Review Elements Summary

	Were acceptance criteria met?		
	Yes	No	
Semivolatile Organics 8270E		Major	Minor
Holding Time/Sample Handling	x		
Method Blanks	x		
Field Blanks	NA		
Mass Spectrometer Tuning	x		
Calibration Response Factor	x		
Calibration Percent Relative Standard Deviation and Percent Difference			x
Internal Standards Performance	x		
Surrogates	x		
Compound Identification - Semivolatile	x		
Tentatively Identified Compounds – Semivolatile	NA		
Matrix Spike/Matrix Spike Duplicate		x	x
Laboratory Control Sample/Laboratory Control Sample Duplicate			x
Other Quality Control Data out of Specification	x		
Field Duplicate	x		

Major= Major data quality issue identified resulting in rejection of data.

Minor= Minor data quality issue identified resulting in the qualification of data. Data qualification should be used to inform the data users of data limitations.

NA = Not applicable

Table 2
Data Validation Qualifiers

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.



DATA USABILITY SUMMARY REPORT FOR 1,4-DIOXANE

PROJECT: NYSDEC Korkay, Incorporated

CLIENT: EA Engineering, Science, and Technology, Inc.

LABORATORY: Con-Test, A Pace Analytical Laboratory

SAMPLE DELIVERY GROUPS: 23E3538

SAMPLE DATES: 05/23/2023 and 05/24/2023

The above sample delivery group (SDG) consist of the following samples:

Client Sample ID	Laboratory Sample ID
518014-MW-19	23E3538-01
518014-MW-16D	23E3538-02
518014-MW-15D	23E3538-03
518014-SW-02	23E3538-04
518014-SD-02	23E3538-05
518014-SW-01	23E3538-06
518014-SD-01	23E3538-07
518014-FD-01-SW	23E3538-08
518014-FD-01-SD	23E3538-09
518014-SW-03	23E3538-10
518014-SD-03	23E3538-11

The samples described above were analyzed via USEPA SW-846 8270E SIM to determine the concentrations of 1,4-dioxane. The method was modified to include isotopic dilution quantitation.

Project specific quality assurance (QA) objectives, as well as the USEPA Region II SOP, Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D, HW-22 Revision 5, December 2010, have been considered during validation of this data and its usability.

Table 1 provides a summary of major and minor data quality issues identified for this data set. All data are acceptable except those results which have been qualified with "R," rejected. Data validation qualifiers along with associated descriptions are provided in Table 2. All data qualification related to this group of samples is detailed on the attached sheets.

Per USEPA Region 2 Validation Guidance, "All data users should note two facts. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables even as a last resort. The second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error."

1. HOLDING TIME/SAMPLE HANDLING

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Proper sample handling and preservation also play a role in the chemical stability of analytes in the sample matrix. If samples are not collected and stored using proper containers and/or preservatives, data may not be valid.

The samples in this delivery group were received by the laboratory within the proper temperature range as specified in the validation guidance.

The samples in this delivery group were prepared and analyzed within the holding time specified in the validation guidelines.

2. BLANK CONTAMINATION

Quality assurance blanks include method, storage, trip, field, or rinse blanks. Blanks are prepared to identify any contamination, which may have been introduced into the samples during laboratory preparation and analysis or field activity. Method and storage blanks measure laboratory contamination. Trip blanks measure cross contamination during shipment. Field and rinse blanks measure cross contamination during field operations.

Method Blanks

No problems were found for this criterion.

Field Blanks

No field blanks were submitted in association with this SDG.

3. MASS SPECTROMETER TUNING

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances.

The tuning standard for semivolatiles is decafluorotriphenylphosphine (DFTPP).

All instrument tunes were fully compliant.

4. CALIBRATION

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative results. The initial calibration curve demonstrates that the instrument is capable of giving acceptable performance at the beginning of an analytical sequence. The continuing calibration verifies that the instrument is continuing to provide satisfactory daily performance. Additionally, a continuing calibration is analyzed at the end of each 12-hour analytical sequence, denoted as a “closing” calibration verification and ascertains acceptable performance at the conclusion of the analytical sequence.

Response Factor

The relative response factor (RRF) measures the instrument's responses to specific chemical compounds. The response factors for the base neutral acid (BNA) target compound list (TCL) analytes must be ≥ 0.05 in both the initial and continuing calibrations. A value less than the respective criteria indicates serious detection and quantitation problems. If the mean RRF of the initial calibration or the continuing calibration RRF is < 0.05 for any analyte, those analytes detected in environmental samples will be qualified as estimated. All non-detects for those analytes will be rejected.

The RRF values in all initial and continuing calibrations were found to be acceptable in all cases.

Note: No closing continuing calibration was performed.

Percent Relative Standard Deviation and Percent Deviation

Percent relative standard deviation (%RSD) is calculated from the initial calibration and is used to indicate stability of a specific compound over the calibration range. Percent deviation (%D) compares the response factor of the continuing calibration with the mean response factor of the initial calibration. Therefore, %D is a measure of the instrument's daily performance.

The following QC criteria have been applied for this project:

The %RSD of initial calibration must be $< 20\%$.

An RSD value outside the initial calibration limit indicates the potential for quantitation errors. For this reason, all positive and non-detected results are qualified as estimated. Severe performance failures (RSD $> 90\%$) requires rejection of non-detected results.

The %D for continuing calibration must be $< 20\%$.

A value outside these limits indicates the potential for detection and quantitation errors. For these reasons, all positive results are qualified as estimated "J," and non-detects are qualified with "UJ."

All initial calibration and continuing calibration %RSD and %D values were within defined quality control criteria without exception.

Note: No closing continuing calibration was performed.

5. INTERNAL STANDARDS PERFORMANCE

Internal standard performance criteria are meant to ensure that the gas chromatograph/mass spectrometer (GC/MS) sensitivity and response are stable during every experimental run.

The internal standard area count must not vary by more than a factor of two from the associated continuing calibration standard. The retention time of the internal standard must not vary by more than ± 30 seconds from the associated continuing calibration standard. The area count must be within -50% to 200% range of the associated standard. If area count is $> 200\%$, non-detected results are not qualified while positive results are qualified "J," estimated. When an observed area count is $< 50\%$, results are qualified "J" or "UJ" as appropriate; however, should area counts be $< 25\%$, all associated non-detects are qualified "R," rejected.

The reported sample analyses and associated method blank had internal standard areas and retention times within QC criteria in all cases.

6. SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation and analyses to evaluate overall laboratory performance and efficiency of the analytical technique.

The reported sample analyses and method blank had observed surrogate recoveries within the limits established by the laboratory in all cases.

7. COMPOUND IDENTIFICATION

Semivolatile

The project target analyte compounds are identified on the GC/MS by using the analytes relative retention time (RRT) and ion spectra. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound and have ion spectra which has a ratio of the primary and secondary ion intensities within 20% of that in the standard compound. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

All identification criteria were met. Therefore, no analytes were qualified for compound identification.

8. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The matrix spike and matrix spike duplicate (MS/MSD) are generated to determine the precision and accuracy of the analytical procedure in a given sample matrix.

Sample 518014-SD-02 was submitted for MS/MSD evaluation in association with this SDG. Upon evaluation all precision and accuracy indicators were favorable.

Sample 518014-SW-02 was submitted for MS/MSD evaluation in association with this SDG. Upon evaluation all precision and accuracy indicators were favorable.

9. LABORATORY CONTROL SAMPLE

The Laboratory Control Sample (LCS) is spiked with the same analytes at the same concentrations as the matrix spike. The LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

No problems were found for this criterion.

10. REPORTING

No dilutions, re-extractions, or other re-analyses were performed.

11. OTHER QUALITY CONTROL DATA OUT OF SPECIFICATION

No problems were found for this criterion.

12. FIELD DUPLICATE

Field duplicates are two (or more) field samples collected at the same time in the same location. Each of the samples represents the same population and is carried through all steps of the sampling and analytical procedures in an identical manner. Field duplicate results are used to assess precision of the total method, including sampling, analysis, and site heterogeneity.

Samples 518014-SD-02 and 518014-FD-01-SD were analyzed as a field duplicate pair in association with this SDG. Adequate field precision was demonstrated.

Samples 518014-SW-02 and 518014-FD-01-SW were analyzed as a field duplicate pair in association with this SDG. Adequate field precision was demonstrated.

13. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

Overall, the laboratory data generated met the project goals and quality control criteria, with the exceptions identified in this report and as summarized in Table 1.

Table 1
Review Elements Summary

	Were acceptance criteria met?		
	Yes	No	
1,4-Dioxane		Major	Minor
Holding Time/Sample Handling	x		
Method Blanks	x		
Field Blanks	NA		
Mass Spectrometer Tuning	x		
Calibration Response Factor	x		
Calibration Percent Relative Standard Deviation and Percent Difference	x		
Internal Standards Performance	x		
Surrogates	x		
Compound Identification - Semivolatile	x		
Tentatively Identified Compounds - Semivolatile	NA		
Matrix Spike/Matrix Spike Duplicate	x		
Laboratory Control Sample	x		
Other Quality Control Data out of Linear Range	NA		
Field Duplicate	x		

Major= Major data quality issue identified resulting in rejection of data.

Minor= Minor data quality issue identified resulting in the qualification of data. Data qualification should be used to inform the data users of data limitations.

NA = Not applicable

Table 2
Data Validation Qualifiers

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
UJ-	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise, and the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.



DATA USABILITY SUMMARY REPORT FOR VOLATILES

PROJECT: NYSDEC Korkay, Incorporated

CLIENT: EA Engineering, Science, and Technology, Inc.

LABORATORY: Con-Test, A Pace Analytical Laboratory

SAMPLE DELIVERY GROUPS: 23E3538

SAMPLE DATES: 05/23/2023 and 05/24/2023

The above sample delivery group (SDG) consist of the following samples:

Client Sample ID	Laboratory Sample ID
518014-MW-19	23E3538-01
518014-MW-16D	23E3538-02
518014-MW-15D	23E3538-03
518014-SW-02	23E3538-04
518014-SD-02	23E3538-05
518014-SW-01	23E3538-06
518014-SD-01	23E3538-07
518014-FD-01-SW	23E3538-08
518014-FD-01-SD	23E3538-09
518014-SW-03	23E3538-10
518014-SD-03	23E3538-11

The samples described above were analyzed via USEPA SW-846 8260D to determine the concentrations of low/medium volatile organic analytes (VOAs).

Project specific quality assurance (QA) objectives, as well as the USEPA Region II SOP, Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B & 8260C, SOP NO. HW-24 Revision 4, September 2014 have been considered during validation of this data and its usability.

Table 1 provides a summary of major and minor data quality issues identified for this data set. All data are acceptable except those results which have been qualified with "R," rejected. Data validation qualifiers along with associated descriptions are provided in Table 2. All data qualification related to this group of samples is detailed on the attached sheets.

Per USEPA Region 2 Validation Guidance, "All data users should note two facts. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables even as a last resort. The second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error."

1. HOLDING TIME/SAMPLE HANDLING

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Proper sample handling and preservation also play a role in the chemical stability of analytes in the sample matrix. If samples are not collected and stored using proper containers and/or preservatives, data may not be valid.

The samples in this SDG were received by the laboratory within the proper temperature range as specified in the validation guidance.

The samples in this SDG were prepared and analyzed within the holding time specified in the validation guidelines.

2. BLANK CONTAMINATION

Quality assurance blanks include method, storage, trip, field, or rinse blanks. Blanks are prepared to identify any contamination, which may have been introduced into the samples during preparation and analysis or field activity. Method and storage blanks measure laboratory contamination. Trip blanks measure cross contamination during shipment. Field and rinse blanks measure cross contamination during field operations.

Method Blanks

Method blanks were prepared and analyzed in association with the samples in these SDGs at the specified frequency. Upon examination of method blank data, no analyte was positively identified at a concentration equal to or above the method detection limit (MDL) in any associated method blank.

Storage Blanks

No storage blanks were submitted in association with this SDG.

Trip Blanks

No sample was submitted as a trip blank in association with this SDG.

Field Blanks

No sample was submitted as a field blank in association with this SDG.

3. MASS SPECTROMETER TUNING

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances.

The tuning standard for volatiles is bromofluorobenzene (BFB).

All tunes associated with this SDG were fully compliant.

4. CALIBRATION

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative results. The initial calibration curve demonstrates that the instrument is capable of giving acceptable performance at the beginning of an analytical sequence. The continuing calibration verifies that the instrument is continuing to provide satisfactory daily performance. Additionally, a continuing calibration is analyzed at the end of each 12-hour analytical sequence, denoted as a “closing” calibration verification, and ascertains acceptable performance at the conclusion of the analytical sequence.

Response Factor

The relative response factor (RRF) measures the instruments responses to specific chemical compounds. The RRFs for the VOA target compound list (TCL) compounds must be greater than the RRFs listed in Region II validation guidelines. A value less than the respective criteria indicates serious detection and quantitation problems. If the mean RRF of the initial calibration or the continuing calibration RRF is below the specified limit for any analyte, those analytes detected in environmental samples will be qualified as estimated. All non-detects for those analytes will be rejected.

The RRF values in all initial and continuing calibrations for method 8260C were found to be acceptable in all cases.

Percent Relative Standard Deviation and Percent Deviation

Percent relative standard deviation (%RSD) is calculated from the initial calibration and is used to indicate stability of a specific compound over the calibration range. Percent deviation (%D) compares the response factor of the continuing calibration with the mean response factor of the initial calibration. Therefore, %D is a measure of the instrument’s daily performance.

The following QC criteria have been applied for this project:

The %RSD of initial calibration must be $\leq 20\%$.

A %RSD value outside initial calibration limit indicates the potential for quantitation errors. For this reason, all positive results are qualified as estimated and non-detect results are qualified using professional judgement.

The %D for opening continuing calibration must be $\leq 30\%$

A value outside these limits indicates the potential for detection and quantitation errors. For these reasons, all positive results are qualified as “J,” estimated, and non-detects are qualified with “UJ.”

All initial calibration and continuing calibration %RSD and %D values were within defined QC criteria with the following exceptions.

The observed %D values in the initial calibration verification (ICV) were outside acceptance limits for bromobenzene, carbon disulfide, and dichlorodifluoromethane. The samples listed in the table below were associated with the non-compliant ICV. The results reported for the impacted analytes in the associated samples were all non-detect and have been qualified estimated “UJ” on this basis.

518014-SD-02	518014-SD-01	518014-FD-01-SD	518014-SD-03

The observed %D values in two continuing calibration verifications (CCVs) were outside acceptance limits for bromomethane, chloroethane, and chloromethane. The samples listed in the table below were associated with the non-compliant CCVs. The results reported for the impacted analytes in the associated samples were all non-detect and have been qualified estimated "UJ" on this basis.

518014-SD-02	518014-SD-01	518014-FD-01-SD	518014-SD-03

Please note, the laboratory did not perform closing continuing calibration verifications. Therefore, those criteria were not evaluated during validation. No qualification was applied on this basis.

5. INTERNAL STANDARDS PERFORMANCE

Internal standard performance criteria are meant to ensure that the gas chromatography/mass spectrometry (GC/MS) sensitivity and response are stable during every experimental run.

The internal standard area count must not vary by more than a factor of two from the associated continuing calibration standard. The retention time of the internal standard must not vary by more than +/- 30 seconds from the associated continuing calibration standard. The area count must be within -50% to +200% range of the associated standard. If area count is >200%, non-detected results are not qualified while positive results associated with the non-compliant internal standard are qualified "J," estimated. However, when an observed area count is <50%, positive results associated with the non-compliant are qualified "J," estimated, while non-detected results are rejected.

Internal standard area counts are within acceptance criteria for all samples.

6. SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation and analyses to evaluate overall laboratory performance and efficiency of the analytical technique. The observed recovery must be within laboratory limits as outlined in the project specific validation guidance.

The reported sample analyses had observed surrogate recoveries within the established acceptance limits in all cases.

7. COMPOUND IDENTIFICATION

Volatile

The project target analyte compounds are identified on the GC/MS by using the analytes relative retention time (RRT) and ion spectra. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound and have ion spectra which has a ratio of the primary and secondary ion intensities within 20% of that in the standard compound. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

All samples were evaluated, and all identification criteria were met. Therefore, no analytes were qualified for compound identification.

Volatile Tentatively Identified Compounds

Tentatively Identified Compounds (TICs) were reported by the laboratory and reviewed for quality assurance. For all TIC results where there is presumptive evidence of a match, being greater than or equal to 85% match, the results are qualified "NJ," tentatively identified. If the non-target compound is reported as an unknown, the result is qualified "J," estimated. Likewise, if it is determined that the identification of a TIC is unacceptable, the tentative identification of the compound is changed to "unknown" and the result is qualified "J," estimated.

Volatile TICs were not reported.

8. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The matrix spike and matrix spike duplicate (MS/MSD) are generated to determine the precision and accuracy of the analytical procedure in a given sample matrix.

Sample 518014-SW-02 was submitted for MS/MSD pair evaluation in association with this SDG. Upon evaluation precision and accuracy indicators were acceptable or did not result in a need to qualify sample results with the following exceptions. The observed MS and MSD recoveries for bromoform, 1,2-dibromo-3-chloropropane, and methyl acetate were lower than the lowest acceptance limit. The non-detected results reported for the impacted analytes in the parent sample have been qualified estimated "UJ" on this basis.

Sample 518014-SD-02 was submitted for MS/MSD pair evaluation in association with this SDG. Upon evaluation precision and accuracy indicators were acceptable or did not result in a need to qualify sample results with the following exceptions. The observed MS and MSD recoveries for chloromethane were lower than the lowest acceptance limit. The non-detected result reported for the impacted analyte in the parent sample has been qualified estimated "UJ" on this basis.

9. LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE

The Laboratory Control Sample (LCS) is spiked with the same analytes at the same concentrations as the matrix spike. The LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

LCS/LCS duplicate (LCSD) evaluations were processed at the proper frequency. Upon evaluation all accuracy and precision criteria were acceptable or did not require qualification of sample results with the following exceptions. The observed recoveries in the LCS and LCSD's associated with all solid samples in this SDG had observed recoveries that were lower than the lowest acceptance limit for chloromethane. The non-detected results reported for the impacted analyte in the associated samples have been qualified estimated "UJ" on this basis.

10. REPORTING

No dilutions, re-extractions, or other re-analyses were performed other than those necessary to bring positive instrument signals within the linear range.

11. OTHER QUALITY CONTROL DATA OUT OF SPECIFICATION

The laboratory reported for 1,4-dioxane via SW 846 method 8260C and SW 846 method 8270 SIM. The results reported via SW 846 method 8260C were flagged as non-reportable by the data validator.

12. FIELD DUPLICATE

Field duplicates are two (or more) field samples collected at the same time in the same location. Each of the samples represents the same population and is carried through all steps of the sampling and analytical procedures in an identical manner. Field duplicate results are used to assess precision of the total method, including sampling, analysis, and site heterogeneity.

Samples 518014-SD-02 and 518014-FD-01-SD were analyzed as a field duplicate pair in association with these SDGs. Adequate field precision was demonstrated.

Samples 518014-SW-02 and 518014-FD-01-SW were analyzed as a field duplicate pair in association with these SDGs. Adequate field precision was demonstrated.

13. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

Overall, the laboratory data generated met the project goals and quality control criteria, with the exceptions identified in this report and as summarized in Table 1.

Table 1
Review Elements Summary

	Were acceptance criteria met?		
	Yes	No	
Volatiles		Major	Minor
Holding Time	x		
Method Blanks	x		
Storage Blanks	NA		
Trip Blanks	NA		
Field Blanks	NA		
Mass Spectrometer Tuning	x		
Calibration Response Factor	x		
Calibration Percent Relative Standard Deviation and Percent Difference			x
Internal Standards	x		
Surrogates	x		
Compound Identification - Volatile	x		
Tentatively Identified Compounds - Volatile	NA		
Matrix Spike/Matrix Spike Duplicate			x
Laboratory Control Sample/Laboratory Control Sample Duplicate			x
Other Quality Control Data out of Specification	x		
Field Duplicate	x		

Major= Major data quality issue identified resulting in rejection of data.

Minor= Minor data quality issue identified resulting in the qualification of data. Data qualification should be used to inform the data users of data limitations.

NA = Not applicable

Table 2
Data Validation Qualifiers

Data Qualifier	Definition
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.



DATA USABILITY SUMMARY REPORT

PROJECT: NYSDEC Korkay, Incorporated

CLIENT: EA Engineering, Science, and Technology, Inc.

LABORATORY: Con-Test, A Pace Analytical Laboratory

SAMPLE DELIVERY GROUP: 23E3540

SAMPLE DATES: 05/23/2023

This sample delivery group consists of the following samples:

Client Sample ID	Laboratory Sample ID
518014-MW-23	23E3540-01
518014-ASW	23E3540-02
518014-VEW-2	23E3540-03
518014-VEW-3	23E3540-04
518014-VEW-4	23E3540-05
518014-VEW-1	23E3540-06
518014-K-2	23E3540-07
518014-MW-18	23E3540-08
518014-MW-22	23E3540-09
518014-MW-17	23E3540-10
518014-K-3	23E3540-11
518014-MW-15S	23E3540-12
518014-MW-21	23E3540-13
518014-MW-24	23E3540-14
518014-MW-8S	23E3540-15
518014-DUP-1-GW	23E3540-16
518014-MW-20	23E3540-17
518014-FB-052323	23E3540-18

Performance criteria specified in the analytical method, USEPA Draft Method 1633, Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS, August 2021; as well as the New York Department of Environmental Conservation Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, January 2021, have been considered during validation of this data and its usability.

Table 1 provides a summary of major and minor data quality issues identified for this data set. All data are acceptable except those results which have been qualified with "R," rejected. Data validation qualifiers along with associated descriptions are provided in Table 2. All data qualification related to this group of samples is detailed on the attached sheets.

Per USEPA Region 2 Validation Guidance, "All data users should note two facts. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables even as a last resort. The second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error."

1. HOLDING TIME/SAMPLE HANDLING

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Proper sample handling and preservation also play a role in the chemical stability of analytes in the sample matrix. If samples are not collected and stored using proper containers and/or preservatives, data may not be valid.

The samples in this sample delivery group (SDG) were received by the laboratory within the proper temperature range. All holding time criteria were met.

2. BLANK CONTAMINATION

Quality assurance blanks include method, storage, trip, field, or rinse blanks. Blanks are prepared to identify any contamination, which may have been introduced into the samples during laboratory preparation and analysis or field activity. Method and storage blanks measure laboratory contamination. Trip blanks measure cross contamination during shipment. Field and rinse blanks measure cross contamination during field operations.

Method Blanks

Method blanks were prepared and analyzed in association with the samples in this SDG at the specified frequency. No problems were found for this criterion.

Calibration Blanks

No problems were found for this criterion.

Field Blanks

Sample 518014-FB-20230523 was submitted as a field blank in association with the samples in this SDG. No problems were found with this criterion.

3. CALIBRATION

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative results. The initial calibration curve demonstrates that the instrument is capable of giving acceptable performance at the beginning of an analytical sequence. The continuing calibration verifies that the instrument is continuing to provide satisfactory daily performance. Additionally, a continuing calibration is analyzed at the end of each 12-hour analytical sequence, denoted as a "closing" calibration verification and ascertains acceptable performance at the conclusion of the analytical sequence.

Percent Relative Standard Deviation and Percent Deviation

Percent relative standard deviation (%RSD) is calculated from the initial calibration and is used to indicate stability of a specific compound over the calibration range. Percent deviation (%D) compares the response factor of the continuing calibration with the mean response factor of the initial calibration. Therefore, %D is a measure of the instrument's daily performance.

An RSD value outside the initial calibration limit indicates the potential for quantitation errors. For this reason, all positive and non-detected results are qualified as estimated. Severe performance failures (RSD >90%) requires rejection of non-detected results. The following QC criteria have been applied for this project: The %RSD of initial calibration must be <20%.

The %D for all analytes in the continuing calibration must be <30% with the exception of the lowest level continuing calibration which must have all a %D for all analytes <50%. A value outside these limits indicates the potential for detection and quantitation errors. For these reasons, all positive results are qualified as estimated "J," and non-detects are qualified with "UJ."

All initial calibration and continuing calibration %RSD and %D values were within defined QC criteria for all target analytes.

4. ISOTOPE DILUTION STANDARDS / SURROGATES

All samples are spiked with isotope dilution or surrogate compounds prior to sample preparation and analyses to evaluate overall laboratory performance and efficiency of the analytical technique.

No problems were found for this criterion with the following exceptions.

The observed isotope dilution standard recovery for labeled standard D5-NEtFOSAA in sample 518014-VEW-4 was less than the lower acceptance limit. The result reported for associated target analyte in the impacted sample has been qualified "J" on this basis. Additionally, the observed isotope dilution standard recovery for labeled standard 13C4-PFBA was extremely low (less than 10%). The result reported for associated target analyte in the impacted sample has been qualified as rejected "R" on this basis.

The observed isotope dilution standard recovery for labeled standard 13C4-PFBA in sample 518014-MW-22 was extremely low (less than 10%). The result reported for associated target analyte in the impacted sample has been qualified as rejected "R" on this basis.

The observed isotope dilution standard recovery for labeled standard 13C4-PFBA in sample 518014-MW-17 was greater than the upper acceptance limit. The result reported for associated target analyte in the impacted sample has been qualified "J" on this basis.

5. COMPOUND IDENTIFICATION

Per-fluorinated Compounds

The project target analyte compounds are identified on the LC/MS/MS by using the analytes relative retention time (RRT) and ion spectra. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound and have ion spectra with primary and when available secondary characteristic ions present. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

All samples were evaluated at a Stage level 4.

The actual ratios of quantifier ion to qualifier ion or the laboratory's criteria were not provided by the laboratory for evaluation. In addition, signal to noise ratios for quantifier ions were not provided by the laboratory for evaluation. Therefore, these criteria were not assessed.

6. MATRIX SPIKE/MATRIX DUPLICATE

The matrix spike and matrix spike duplicate (MS/MSD) are generated to determine the precision and accuracy of the analytical procedure in a given sample matrix. A matrix duplicate sample analysis is performed to determine long-term precision of the analytical method in a given matrix. The relative percent difference (RPD) between the sample and its duplicate may be used to qualify data.

Sample 518014-MW-22 was submitted for MS/MSD evaluation in association with this SDG. Upon evaluation all accuracy and precision indicators were acceptable or did not result in a need to qualify sample results with the following exception. Poor laboratory precision was noted for PFBA. The result reported for PFBA would have been qualified "J" on this basis but was previously qualified "R" due to other noncompliance.

7. LABORATORY CONTROL SAMPLE

The Laboratory Control Sample (LCS) is spiked with the same analytes at the same concentrations as the matrix spike. The LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

No problems were found for this criterion.

8. REPORTING

No problems were found for this criterion.

9. OTHER QUALITY CONTROL DATA OUT OF SPECIFICATION

The PFOS signal exceeded the instrument's calibration upper limit in samples 518014-VEW-1 and 518014-VEW-4. The results reported for PFOS in the impacted samples have been qualified "J" on this basis.

10. FIELD DUPLICATE

Field duplicates are two (or more) field samples collected at the same time in the same location. Each of the samples represents the same population and is carried through all steps of the sampling and analytical procedures in an identical manner. Field duplicate results are used to assess precision of the total method, including sampling, analysis, and site heterogeneity.

Samples 518014-MW-24 and 518014-DUP-1-GW were analyzed as a field duplicate pair in association with this SDG. Upon evaluation adequate field precision was demonstrated

11. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

Overall, the laboratory data generated met the project goals and quality control criteria, with the exceptions identified in this report and as summarized in Table 1.

Table 1
Review Elements Summary

	Were acceptance criteria met?		
	Yes	No	
Per-fluorinated Compounds		Major	Minor
Holding Time/Sample Handling	x		
Method Blanks / Calibration Blanks	x		
Field Blanks	x		
Calibration Percent Relative Standard Deviation and Percent Difference	x		
Isotope Dilution Standards / Surrogates		x	x
Compound Identification	x		
Matrix Spike/Matrix Duplicate	x		
Laboratory Control Sample	x		
Other Quality Control Data out of Specification			x
Field Duplicate	x		

Major= Major data quality issue identified resulting in rejection of data.

Minor= Minor data quality issue identified resulting in the qualification of data. Data qualification should be used to inform the data users of data limitations.

NA = Not applicable

Table 2
Data Validation Qualifiers

Data Qualifier	Definition
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
EMPC	The result is an estimated maximum potential concentration.

Table 3
PFAS Definitions Table

	CAS Number	Compound	Abbreviation(s)
1	151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid	NFDHA, PFECA B
2	113507-82-7	Perfluoro (2-ethoxyethane) sulfonic acid	PFEESA, PES
3	4151-50-2	N-ethylperfluoro-1-octanesulfonamide	NEtFOSA, NEtPFOSA
4	31506-32-8	N-methylperfluoro-1octanesulfonamide	NMeFOSA, NMePFOSA
5	377-73-1	Perfluoro-3-methoxypropanoic acid	PFMPA, PRMOPrA, PFECA F
6	375-73-5	Perfluorobutanesulfonic acid	PFBS
7	863090-89-5	Perfluoro-4-methoxybutanoic acid	PFMBA, PFMOBA, PFECA A
8	2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid	NMeFOSAA
9	13252-13-6	Hexafluoropropylene Oxide Dimer Acid	HFPO-DA, Gen-X, HFPODA
10	2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid	NEtFOSAA
11	375-22-4	Perfluorobutanoic acid	PFBA
12	335-67-1	Perfluorooctanoic acid	PFOA
13	2706-91-4	Perfluoropentanesulfonic acid	PFPeS
14	754-91-6	Perfluorooctanesulfonamide	FOSA, PFOSA
15	1763-23-1	Perfluorooctanesulfonic acid	PFOS
16	2706-90-3	Perfluoropentanoic acid	PFPeA
17	2058-94-8	Perfluoroundecanoic acid	PFUnA, PFUnDA
18	376-06-7	Perfluorotetradecanoic acid	PFTeA, PFTeDA
19	72629-94-8	Perfluorotridecanoic acid	PFTriA, PFTrDA
20	375-95-1	Perfluorononanoic acid	PFNA
21	79780-39-5	Perfluorododecanesulfonic acid	PFDoS
22	307-55-1	Perfluorododecanoic acid	PFDoA, PFDoDA
23	335-77-3	Perfluorodecanesulfonic acid	PFDS
24	335-76-2	Perfluorodecanoic acid	PFDA
25	375-92-8	Perfluoroheptanesulfonic Acid	PFHpS
26	307-24-4	Perfluorohexanoic acid	PFHxA
27	68259-12-1	Perfluorononanesulfonic acid	PFNS
28	375-85-9	Perfluoroheptanoic acid	PFHpA
29	355-46-4	Perfluorohexanesulfonic acid	PFHxS
30	763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11CL-PF3Ouds, F-53 Minor
31	27619-97-2	6:2-Fluorotelomersulfonic acid	6:2 FTS
32	812-70-4	7:3 Fluorotelomer carboxylic acid	7:3 FTCA
33	756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	9Cl-PF3ONS
34	39108-34-4	8:2-Fluotelomersulfonic acid	8:2 FTS
35	914637-49-3	5:3 Fluorotelomer carboxylic acid	5:3 FTCA
36	1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	NEtPFOSAE, NEtFOSE
37	919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid	DONA, ADONA
38	757124-72-4	4:2-Fluorotelomersulfonic acid	4:2 FTS

	CAS Number	Compound	Abbreviation(s)
39	24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	NMePFOSAE, NMeFOSE
40	356-02-5	3-Perfluoropropylpropanoic acid	3:3 FTCA

DATA USABILITY SUMMARY REPORT

PROJECT: NYSDEC Korkay, Incorporated

CLIENT: EA Engineering, Science, and Technology, Inc.

LABORATORY: Con-Test, A Pace Analytical Laboratory

SAMPLE DELIVERY GROUP: 23E3549

SAMPLE DATES: 05/23/2023 and 05/24/2023

This sample delivery group consists of the following samples:

Client Sample ID	Laboratory Sample ID
518014-EB-052323	23E3549-01
518014-MW-19	23E3549-02
518014-MW-16D	23E3549-03
518014-MW-15D	23E3549-04
518014-SW-02	23E3549-05
518014-SD-02	23E3549-06
518014-SW-01	23E3549-07
518014-SD-01	23E3549-08
518014-FB-052423	23E3549-09
518014-EB-052423	23E3549-10
518014-FD-01-SW	23E3549-11
518014-FD-01-SD	23E3549-12
518014-SW-03	23E3549-13
518014-SD-03	23E3549-14

Performance criteria specified in the analytical method, USEPA Draft Method 1633, Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS, August 2021; as well as the New York Department of Environmental Conservation Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, January 2021, have been considered during validation of this data and its usability.

Table 1 provides a summary of major and minor data quality issues identified for this data set. All data are acceptable except those results which have been qualified with "R," rejected. Data validation qualifiers along with associated descriptions are provided in Table 2. All data qualification related to this group of samples is detailed on the attached sheets.

Per USEPA Region 2 Validation Guidance, "All data users should note two facts. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables even as a last resort. The second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error."

1. HOLDING TIME/SAMPLE HANDLING

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Proper sample handling and preservation also play a role in the chemical stability of analytes in the sample matrix. If samples are not collected and stored using proper containers and/or preservatives, data may not be valid.

The samples in this sample delivery group (SDG) were received by the laboratory within the proper temperature range. All holding time criteria were met.

2. BLANK CONTAMINATION

Quality assurance blanks include method, storage, trip, field, or rinse blanks. Blanks are prepared to identify any contamination, which may have been introduced into the samples during laboratory preparation and analysis or field activity. Method and storage blanks measure laboratory contamination. Trip blanks measure cross contamination during shipment. Field and rinse blanks measure cross contamination during field operations.

Method Blanks

Method blanks were prepared and analyzed in association with the samples in this SDG at the specified frequency. No problems were found for this criterion with the following exception. PFBA was positively identified in the method associated with samples 518014-MW-16D and 518014-MW-19. Positive sample results for the impacted analyte in the associated samples have been evaluated and qualified as appropriate per validation guidance.

Calibration Blanks

No problems were found for this criterion.

Field Blanks

Sample 518014-EB-20230523, 518014-EB-20230524 and 518014-FB-20230524 were submitted as equipment and/or field blanks in association with the samples in this SDG. No problems were found with this criterion with the following exception. PFBA was positively identified in 518014-EB-20230523 associated with sample 518014-MW-19 collected on 05/23/2023. The positive sample result for the impacted analyte in the associated sample has been evaluated and qualified as appropriate per validation guidance.

3. CALIBRATION

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative results. The initial calibration curve demonstrates that the instrument is capable of giving acceptable performance at the beginning of an analytical sequence. The continuing calibration verifies that the instrument is continuing to provide satisfactory daily performance. Additionally, a continuing calibration is analyzed at the end of each 12-hour analytical sequence, denoted as a “closing” calibration verification and ascertains acceptable performance at the conclusion of the analytical sequence.

Percent Relative Standard Deviation and Percent Deviation

Percent relative standard deviation (%RSD) is calculated from the initial calibration and is used to indicate stability of a specific compound over the calibration range. Percent deviation (%D) compares the response factor of the continuing calibration with the mean response factor of the initial calibration. Therefore, %D is a measure of the instrument's daily performance.

An RSD value outside the initial calibration limit indicates the potential for quantitation errors. For this reason, all positive and non-detected results are qualified as estimated. Severe performance failures (RSD >90%) requires rejection of non-detected results. The following QC criteria have been applied for this project: The %RSD of initial calibration must be <20%.

The %D for all analytes in the continuing calibration must be <30% with the exception of the lowest level continuing calibration which must have all a %D for all analytes <50%. A value outside these limits indicates the potential for detection and quantitation errors. For these reasons, all positive results are qualified as estimated "J," and non-detects are qualified with "UJ."

All initial calibration and continuing calibration %RSD and %D values were within defined QC criteria for all target analytes.

4. ISOTOPE DILUTION STANDARDS / SURROGATES

All samples are spiked with isotope dilution or surrogate compounds prior to sample preparation and analyses to evaluate overall laboratory performance and efficiency of the analytical technique.

No problems were found for this criterion with the following exceptions.

The observed isotope dilution standard recoveries for labeled standard ¹³C₄-PFBA in samples 518014-EB-052323 and 518014-MW-15D were extremely low (less than 10%). The results reported for associated target analyte in the impacted samples have been qualified as rejected "R" on this basis.

5. COMPOUND IDENTIFICATION

Per-fluorinated Compounds

The project target analyte compounds are identified on the LC/MS/MS by using the analytes relative retention time (RRT) and ion spectra. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound and have ion spectra with primary and when available secondary characteristic ions present. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

All samples were evaluated at a Stage level 4.

The actual ratios of quantifier ion to qualifier ion or the laboratory's criteria were not provided by the laboratory for evaluation. In addition, signal to noise ratios for quantifier ions were not provided by the laboratory for evaluation. Therefore, these criteria were not assessed.

6. MATRIX SPIKE/MATRIX DUPLICATE

The matrix spike and matrix spike duplicate (MS/MSD) are generated to determine the precision and accuracy of the analytical procedure in a given sample matrix. A matrix duplicate sample analysis is performed to determine long-term precision of the analytical method in a given matrix. The relative percent difference (RPD) between the sample and its duplicate may be used to qualify data.

Sample 518014-SW-02 was submitted for MS/MSD evaluation in association with this SDG. Upon evaluation all accuracy and precision indicators were acceptable.

Sample 518014-SD-02 was submitted for MS/MSD evaluation in association with this SDG. Upon evaluation all accuracy and precision indicators were acceptable.

7. LABORATORY CONTROL SAMPLE

The Laboratory Control Sample (LCS) is spiked with the same analytes at the same concentrations as the matrix spike. The LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

No problems were found for this criterion with the following exception. The %R for PFMPA was less than the lower acceptance limit in the LCS associated with samples 518014-EB-20230523, 518014-MW-16D, and 518014-MW-19. The results reported for the impacted analyte in the associated samples have been qualified "UJ" on this basis.

8. REPORTING

No problems were found for this criterion.

9. OTHER QUALITY CONTROL DATA OUT OF SPECIFICATION

None.

10. FIELD DUPLICATE

Field duplicates are two (or more) field samples collected at the same time in the same location. Each of the samples represents the same population and is carried through all steps of the sampling and analytical procedures in an identical manner. Field duplicate results are used to assess precision of the total method, including sampling, analysis, and site heterogeneity.

Samples 518014-SD-02 and 518014-FD-01-SD were analyzed as a field duplicate pair in association with this SDG. Upon evaluation adequate field precision was demonstrated

Samples 518014-SW-02 and 518014-FD-01-SW were analyzed as a field duplicate pair in association with this SDG. Upon evaluation adequate field precision was demonstrated

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Overall, the laboratory data generated met the project goals and quality control criteria, with the exceptions identified in this report and as summarized in Table 1.

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Review Elements Summary

	Were acceptance criteria met?		
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Method Blanks / Calibration Blanks			x
Field Blanks			x
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Isotope Dilution Standards / Surrogates		x	
Compound Identification	x		
Matrix Spike/Matrix Duplicate	x		
Laboratory Control Sample			x
Other Quality Control Data out of Specification	x		
Field Duplicate	x		

Major= Major data quality issue identified resulting in rejection of data.

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4	31506-32-8	N-methylperfluoro-1octanesulfonamide	NMeFOSA, NMePFOSA
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6	375-73-5	Perfluorobutanesulfonic acid	PFBS
7	863090-89-5	Perfluoro-4-methoxybutanoic acid	PFMBA, PFMOBA, PFECA A
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16	2706-90-3	Perfluoropentanoic acid	PFPeA
17	2058-94-8	Perfluoroundecanoic acid	PFUnA, PFUnDA
18	376-06-7	Perfluorotetradecanoic acid	PFTeA, PFTeDA
19	72629-94-8	Perfluorotridecanoic acid	PFTriA, PFTrDA
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26	307-24-4	Perfluorohexanoic acid	PFHxA
27	68259-12-1	Perfluorononanesulfonic acid	PFNS
28	375-85-9	Perfluoroheptanoic acid	PFHpA
29	355-46-4	Perfluorohexanesulfonic acid	PFHxS
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32	812-70-4	7:3 Fluorotelomer carboxylic acid	7:3 FTCA
33	756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	9Cl-PF3ONS
34	39108-34-4	8:2-Fluotelomersulfonic acid	8:2 FTS
35	914637-49-3	5:3 Fluorotelomer carboxylic acid	5:3 FTCA
36	1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	NEtPFOSAE, NEtFOSE
37	919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid	DONA, ADONA
38	757124-72-4	4:2-Fluorotelomersulfonic acid	4:2 FTS

	CAS Number	Compound	Abbreviation(s)
39	24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	NMePFOSAE, NMeFOSE
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